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OM protein - protein search, using bw model

Run on: January 20, 2006, 14:50:54 ; Search time 59.6445 Seconds
(without alignments)
4336.296 Million cell updates/sec

Title: US-10-849-814-12
Perfect score: 3321
Sequence: 1 MKNTISCLTLALLSASQLHA.....QRIFHDVNNTATYIEFSVLUKD 619

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1867559 seqs, 417829326 residues

Total number of hits satisfying chosen parameters: 1867559

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing First 45 summaries

Database : Published Applications_AAI_Main:
1: /cgm2_6/ptodata/1/pubpa/US10_PUBCOMB.pep:
2: /cgm2_6/ptodata/1/pubpa/US08_PUBCOMB.pep:
3: /cgm2_6/ptodata/1/pubpa/US09_PUBCOMB.pep:
4: /cgm2_6/ptodata/1/pubpa/US1A_PUBCOMB.pep:
5: /cgm2_6/ptodata/1/pubpa/US10B_PUBCOMB.pep:
6: /cgm2_6/ptodata/1/pubpa/US11_PUBCOMB.pep:
* Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	3321	100.0	619	4	US-10-763-179-12
2	3321	100.0	619	5	US-10-849-814-12
3	3321	100.0	619	5	US-10-855-533-12
4	3321	100.0	619	5	US-10-859-405-12
5	3321	100.0	619	5	US-10-876-673-12
6	3321	100.0	619	6	US-11-050-829-20
7	2198.5	66.2	616	4	US-10-763-179-6
8	2198.5	66.2	616	5	US-10-859-814-6
9	2198.5	66.2	616	5	US-10-855-533-6
10	2198.5	66.2	616	5	US-10-859-405-6
11	2198.5	66.2	616	5	US-10-876-673-6
12	2198.5	66.2	616	6	US-11-050-829-14
13	2198.5	66.2	616	6	US-11-050-829-14
14	2187.5	65.9	594	6	US-11-084-576-3
15	2081	62.7	625	4	US-10-763-179-18
16	2081	62.7	625	5	US-10-855-533-18
17	2081	62.7	625	5	US-10-876-673-18
18	1618	48.7	645	4	US-10-763-179-23
19	1618	48.7	645	5	US-10-855-533-23
20	1618	48.7	645	5	US-10-876-673-23
21	1402.5	42.2	644	4	US-10-763-179-27
22	1402.5	42.2	644	5	US-10-855-533-27
23	1402.5	42.2	644	5	US-10-876-673-27
24	1402	42.2	620	4	US-10-763-179-25
25	1402	42.2	620	5	US-10-855-533-25
26	1402	42.2	620	5	US-10-876-673-25
27	356	10.7	549	5	US-10-482-706-197

ALIGNMENTS

RESULT 1
US-10-763-179-12
; Sequence 12, Application US/10763179
; Publication No. US2004020457TA1
; GENERAL INFORMATION:
; APPLICANT: HARA, SEIICHI
; APPLICANT: YOKOZEKI, KENZO
; APPLICANT: ABE, ISAO
; APPLICANT: TONOUCHI, NAOTO
; APPLICANT: JOJIMA, YASUKO
; TITLE OF INVENTION: NOVEL PEPTIDE-FORMING ENZYME GENES
; FILE REFERENCE: 24784B0
; CURRENT APPLICATION NUMBER: US/10-763-179
; PRIORITY FILING DATE: 2004-01-26
; PRIORITY APPLICATION NUMBER: JP 2003-16765
; PRIORITY FILING DATE: 2003-08-01
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: Patentin version 3.1
; SEQ ID NO: 12
; LENGTH: 619
; TYPE: PRT
; ORGANISM: Sphingobacterium sp.
US-10-763-179-12

Query Match Score 3321; DB 4; Length 619;
Best Local Similarity 100.0%; Pred. No. 3.2e-260;
Matches 619; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MKNTISCLTLALLSASOLHQAQTAAADSAYVRDYEKTEVAIPMRDGKCLFTALYSPKDSK 60
Db 1 MKNTISCLTLALLSASOLHQAQTAAADSAYVRDYEKTEVAIPMRDGKCLFTALYSPKDSK 60
Qy 61 KYPVLLNRTPTVSPGQNEYKKSGLNPQMREGITFVYQDVKGMSEGDFEDIRPTT 120
Db 61 KYPVLLNRTPTVSPGQNEYKKSGLNPQMREGITFVYQDVKGMSEGDFEDIRPTT 120
Qy 121 YSKDKKAIDESTDTDALENTQKNLKNYNGKAGLYGTSYPCGYSTVGLVKTHPSLKAVSP 180
Db 121 YSKDKKAIDESTDTDALEWLQKNLKNYNGKAGLYGTSYPCGYSTVGLVKTHPSLKAVSP 180
Qy 181 QAPVTDWYIGDDEHNGVLFLQDADFTMSTFGVPRPKPITDPOFGKQIQKEADKNPFA 240
Db 181 QAPVTDWYIGDDEHNGVLFLQDADFTMSTFGVPRPKPITDPOFGKQIQKEADKNPFA 240
Qy 241 EAGTARELKEKYFGDSVQFWNDLFKHPDYDDWMSRVTINSLQEPAVMVYGGFFDAED 300
Db 241 EAGTARELKEKYFGDSVQFWNDLFKHPDYDDWMSRVTINSLQEPAVMVYGGFFDAED 300

Sequence 197, App

Qy 301 AYGTFKTYQSIEDKSCKNNSLIVAGPWWHGGWVRAGNYLCDIQPEKKTSITYQEQFP 360
 Db 301 AYGTFKTYQSIEDKSCKNNSLIVAGPWWHGGWVRAGNYLCDIQPEKKTSITYQEQFP 360
 Qy 361 FFKYKLDEGNFAPSEANIFVGSNEWKHFQWPKVNEVKLYFOPQGKLGFDKVQRD 420
 Db 361 FFKYKLDEGNFAPSEANIFVGSNEWKHFQWPKVNEVKLYFOPQGKLGFDKVQRD 420
 Qy 421 SWDEYVTDPNKPVPHOGVIONTRTEYMDIDORFAASRPDVMYQTEPLTDLTVGPIK 480
 Db 421 SWDEYVTDPNKPVPHOGVIONTRTEYMDIDORFAASRPDVMYQTEPLTDLTVGPIK 480
 Qy 481 NPLKVSSTGTDADYVNLIDYVPPNDASYQCKTMACQYQMVTRGEIMAGKYRNGFDKAQAL 540
 Db 481 NPLKVSSTGTDADYVNLIDYVPPNDASYQCKTMACQYQMVTRGEIMAGKYRNGFDKAQAL 540
 Qy 541 TPGMVEKVNFMMPDAHTFKKGHRIMVQVONSWFLAERNPQFLAPYATKADFRKATQ 600
 Db 541 TPGMVEKVNFMMPDAHTFKKGHRIMVQVONSWFLAERNPQFLAPYATKADFRKATQ 600
 Qy 601 RIFHDVNNATYIEFSVLKD 619
 Db 601 RIFHDVNNATYIEFSVLKD 619
 Qy 601 RIFHDVNNATYIEFSVLKD 619
 Db 601 RIFHDVNNATYIEFSVLKD 619

RESULT 2
 US-10-849-814-12
 ; Sequence 12, Application US/10849814
 ; PUBLICATION NO. US20040219631A1
 ; GENERAL INFORMATION:
 ; APPLICANT: YOKOZEKI, KENZO
 ; APPLICANT: SUZUKI, SONOKO
 ; APPLICANT: HARA, SEIICHI
 ; APPLICANT: ABE, ISAO
 ; TITLE OF INVENTION: METHOD FOR PRODUCING TRIPETIDES AND/OR PEPTIDES LONGER THAN TRIPETIDE
 ; CURRENT APPLICATION NUMBER: US/10/849,814
 ; CURRENT FILING DATE: 2004-05-21
 ; PRIOR APPLICATION NUMBER: PCT/JP03/09466
 ; PRIOR FILING DATE: 2003-07-25
 ; PRIOR APPLICATION NUMBER: JP 2002-218958
 ; PRIOR FILING DATE: 2002-07-26
 ; NUMBER OF SEQ ID NOS: 14
 ; SOFTWARE: PatentIn version 3.1
 ; SEQ ID NO: 12
 ; LENGTH: 619
 ; TYPE: PRT
 ; ORGANISM: Sphingobacterium sp.
 ; US-10-849-814-12

Query Match 100.0%; Score 3321; DB 5; Length 619;
 Best Local Similarity 100.0%; Pred. No. 3.2e-260;
 Matches 619; Conservative 0; Mismatches 0; Gaps 0;

Qy 1 MKNTISCLTALLSASQLHAQTADSAVYDHYTEVA[PMDGKLLFRAISPKD]SK 60
 Db 1 MKNTISCLTALLSASQLHAQTADSAVYDHYTEVA[PMDGKLLFRAISPKD]SK 60

Qy 61 KPYVLLNRPYTVSPYQNEYTKSLNFQNMREGYIFTYDVRGKMSGDFD[IR]PT 120
 Db 61 KPYVLLNRPYTVSPYQNEYTKSLNFQNMREGYIFTYDVRGKMSGDFD[IR]PT 120

Qy 121 YSKDKKA1DESTDYDALEWLOQNLLKNYNGKAGIYGLSYSPGFYSTVGLWKTTHPSLKAVSP 180
 Db 121 YSKDKKA1DESTDYDALEWLOQNLLKNYNGKAGIYGLSYSPGFYSTVGLWKTTHPSLKAVSP 180

Qy 181 QAPVTDWYIGDDFHNGVLFQDAFTFMSITGVPRKPTPDQFCKQIQLKEADKYNPFA 240
 Db 181 QAPVTDWYIGDDFHNGVLFQDAFTFMSITGVPRKPTPDQFCKQIQLKEADKYNPFA 240
 Qy 241 EAGTARELKEYFQDSVQFWNDLKFHKPDYDDFWKSRVITNSLQEYPAVMVGFFDAED 300
 Db 241 EAGTARELKEYFQDSVQFWNDLKFHKPDYDDFWKSRVITNSLQEYPAVMVGFFDAED 300

Qy 301 AYGTFKTYQSIEDKSCKNNSLIVAGPWWHGGWVRAGNYLCDIQPEKKTSITYQEQFP 360
 Db 301 AYGTFKTYQSIEDKSCKNNSLIVAGPWWHGGWVRAGNYLCDIQPEKKTSITYQEQFP 360
 Qy 361 FFKYKLDEGNFAPSEANIFVGSNEWKHFQWPKVNEVKLYFOPQGKLGFDKVQRD 420
 Db 361 FFKYKLDEGNFAPSEANIFVGSNEWKHFQWPKVNEVKLYFOPQGKLGFDKVQRD 420
 Qy 421 SWDEYVTDPNKPVPHOGVIONTRTEYMDIDORFAASRPDVMYQTEPLTDLTVGPIK 480
 Db 421 SWDEYVTDPNKPVPHOGVIONTRTEYMDIDORFAASRPDVMYQTEPLTDLTVGPIK 480
 Qy 481 NFLKVSSTGTDADYVNLIDYVPPNDASYQCKTMACQYQMVTRGEIMAGKYRNGFDKAQAL 540
 Db 481 NFLKVSSTGTDADYVNLIDYVPPNDASYQCKTMACQYQMVTRGEIMAGKYRNGFDKAQAL 540
 Qy 541 TPGMVEKVNFMMPDAHTFKKGHRIMVQVONSWFLAERNPQFLAPYATKADFRKATQ 600
 Db 541 TPGMVEKVNFMMPDAHTFKKGHRIMVQVONSWFLAERNPQFLAPYATKADFRKATQ 600
 Qy 601 RIFHDVNNATYIEFSVLKD 619
 Db 601 RIFHDVNNATYIEFSVLKD 619
 Qy 601 RIFHDVNNATYIEFSVLKD 619
 Db 601 RIFHDVNNATYIEFSVLKD 619

RESULT 3
 US-10-855-533-12
 ; Sequence 12, Application US/10855533
 ; Publication No. US20050019864A1
 ; GENERAL INFORMATION:
 ; APPLICANT: HARA, SEIICHI
 ; APPLICANT: YOKOZEKI, KENZO
 ; APPLICANT: ABE, ISAO
 ; APPLICANT: TONOUCHI, NAOTO
 ; APPLICANT: JOJIMA, YASUO
 ; TITLE OF INVENTION: NOVEL PEPTIDE-FORMING ENZYME GENES
 ; FILE REFERENCE: 253713US0
 ; CURRENT APPLICATION NUMBER: US/10/855,533
 ; CURRENT FILING DATE: 2004-05-28
 ; PRIOR APPLICATION NUMBER: PCT/JP03/09468
 ; PRIOR FILING DATE: 2003-07-25
 ; PRIOR APPLICATION NUMBER: JP 2002-218957
 ; PRIOR FILING DATE: 2002-07-26
 ; PRIOR APPLICATION NUMBER: JP 2003-16765
 ; PRIOR FILING DATE: 2003-07-24
 ; NUMBER OF SEQ ID NOS: 27
 ; SOFTWARE: PatentIn version 3.1
 ; SEQ ID NO: 12
 ; LENGTH: 619
 ; TYPE: PRT
 ; ORGANISM: Sphingobacterium sp.
 ; US-10-855-533-12

Query Match 100.0%; Score 3321; DB 5; Length 619;
 Best Local Similarity 100.0%; Pred. No. 3.2e-260;
 Matches 619; Conservative 0; Mismatches 0; Gaps 0;

Qy 1 MKNTISCLTALLSASQLHAQTADSAVYDHYTEVA[PMDGKLLFATYSRKD]SK 60
 Db 1 MKNTISCLTALLSASQLHAQTADSAVYDHYTEVA[PMDGKLLFATYSRKD]SK 60
 Qy 61 KPYVLLNRPYTVSPYQNEYTKSLNFQNMREGYIFTYDVRGKMSGDFD[IR]PT 120
 Db 61 KPYVLLNRPYTVSPYQNEYTKSLNFQNMREGYIFTYDVRGKMSGDFD[IR]PT 120
 Qy 121 YSKDKKA1DESTDYDALEWLOQNLLKNYNGKAGIYGLSYSPGFYSTVGLWKTTHPSLKAVSP 180
 Db 121 YSKDKKA1DESTDYDALEWLOQNLLKNYNGKAGIYGLSYSPGFYSTVGLWKTTHPSLKAVSP 180
 Qy 181 QAPVTDWYIGDDFHNGVLFQDAFTFMSITGVPRKPTPDQFCKQIQLKEADKYNPFA 240
 Db 181 QAPVTDWYIGDDFHNGVLFQDAFTFMSITGVPRKPTPDQFCKQIQLKEADKYNPFA 240
 Qy 241 EAGTARELKEYFQDSVQFWNDLKFHKPDYDDFWKSRVITNSLQEYPAVMVGFFDAED 300
 Db 241 EAGTARELKEYFQDSVQFWNDLKFHKPDYDDFWKSRVITNSLQEYPAVMVGFFDAED 300

Qy 241 EAGTARELKEKYFCDSVQFWNDLFKHPDYDDENFKSRVITNSLQEVKPAVMVGGFPDAED 300
Db 241 EAGTARELKEKYFCDSVQFWNDLFKHPDYDDENFKSRVITNSLQEVKPAVMVGGFPDAED 300
Qy 301 AYGPFTKTVOSIEDKSCKNSILVAGPWHGGWTRAEGNYLGLD1QPEKRTSITYQBQP QP 360
Db 301 AYGPFTKTVOSIEDKSCKNSILVAGPWHGGWTRAEGNYLGLD1QPEKRTSITYQBQP QP 360
Qy 361 FPKXYLKDEGNFAPSEANTIVSSNEWHFBQMPKVNTEKLYFQPGKLGFDPKVQRTD 420
Db 361 FPKXYLKDEGNFAPSEANTIVSSNEWHFBQMPKVNTEKLYFQPGKLGFDPKVQRTD 420
Qy 421 SWDEYYTDPNKPVPHOGGVIONPREYNNDDQRFAASRPDVNVYQTEPLTEDLTIVGPIK 480
Db 421 SWDEYYTDPNKPVPHOGGVIONPREYNNDDQRFAASRPDVNVYQTEPLTEDLTIVGPIK 480
Qy 481 NPLKVSSSTGTADYVVKLIDVYFNDAASYQGKTMAGYQMMVRGEIMAGKVRNGFDKAQAL 540
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Qy 541 TPGMVERKNFEMPDVAHTFKKGHRIMYQVNQNSWFLAERNPOVFLAPTTAKADFRTAQ 600
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Qy 601 RIFHDVNNATYIEFSVLKD 619
Db 601 RIFHDVNNATYIEFSVLKD 619
Db 601 RIFHDVNNATYIEFSVLKD 619

RESULT 4
US-10-859-405-12
; Sequence 12, Application US/10859405
; Publication No. US20050032154A1
; GENERAL INFORMATION:
; APPLICANT: YOKOZEKI, KENZO
; APPLICANT: SUZUKI, SONOKO
; APPLICANT: HARA, SEIICHI
; APPLICANT: ABE, ISAO
; TITLE OF INVENTION: METHOD FOR PRODUCING TRIPePTIDES AND/OR PEPTIDES LONGER THAN FILE REFERENCE: 254070050
; CURRENT FILING DATE: 2004-06-03
; PRIORITY APPLICATION NUMBER: US 10/859,405
; PRIORITY FILING DATE: 2003-08-01
; PRIORITY APPLICATION NUMBER: JP 2002-218958
; PRIORITY FILING DATE: 2002-07-26
; NUMBER OF SEQ ID NOS: 21
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO: 12
; LENGTH: 619
; TYPE: PRT
; ORGANISM: Sphingobacterium sp.
; us-10-859-405-12

Query Match 100.0%; Score 3321; DB 5; Length 619;
Best Local Similarity 100.0%; Pred. No. 3.2e-260; Indels 0; Gaps 0;
Matches 619; Conservative 0; Mismatches 0; Type: PRT
us-10-859-405-12

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Db 1 MNTISCLTLAISOLHAQTAADSAYVRDHYEKTEVAPIPRDGKLLFTAIYSPKDKSK 60
Db 61 KYPVLLNRPYTPYSPGNEYKKSIGNPQMMREGYIFVYQDVRGKMSSEGDFEDIRPTT 120
Db 61 KYPVLLNRPYTPYSPGNEYKKSIGNPQMMREGYIFVYQDVRGKMSSEGDFEDIRPTT 120
Qy 121 YSKDKRADESTDTYDALEWLQKNLKRNGKAGLYGSIYPGYFYSTVGLVTKTHPSLKAVSP 180
Db 121 YSKDKRADESTDTYDALEWLQKNLKRNGKAGLYGSIYPGYFYSTVGLVTKTHPSLKAVSP 180
Qy 181 QAPVTDWYTGDDFHNGYLFLQDAFTMISTFGVPRPKPITPQFKGK1QIKEADKYNFFA 240
Db 181 QAPVTDWYTGDDFHNGYLFLQDAFTMISTFGVPRPKPITPQFKGK1QIKEADKYNFFA 240
Qy 241 EAGTARELKEKYFCDSVQFWNDLFKHPDYDDENFKSRVITNSLQEVKPAVMVGGFPDAED 300
Db 241 EAGTARELKEKYFCDSVQFWNDLFKHPDYDDENFKSRVITNSLQEVKPAVMVGGFPDAED 300
Qy 241 EAGTARELKEKYFCDSVQFWNDLFKHPDYDDENFKSRVITNSLQEVKPAVMVGGFPDAED 300
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Qy 301 AYGPFTKTVOSIEDKSCKNSILVAGPWHGGWTRAEGNYLGLD1QPEKRTSITYQEQQP QP 360
Db 301 AYGPFTKTVOSIEDKSCKNSILVAGPWHGGWTRAEGNYLGLD1QPEKRTSITYQEQQP QP 360
Qy 361 AYGPFTKTVOSIEDKSCKNSILVAGPWHGGWTRAEGNYLGLD1QPEKRTSITYQEQQP QP 360
Db 361 AYGPFTKTVOSIEDKSCKNSILVAGPWHGGWTRAEGNYLGLD1QPEKRTSITYQEQQP QP 360
Qy 361 AYGPFTKTVOSIEDKSCKNSILVAGPWHGGWTRAEGNYLGLD1QPEKRTSITYQEQQP QP 360
Db 361 AYGPFTKTVOSIEDKSCKNSILVAGPWHGGWTRAEGNYLGLD1QPEKRTSITYQEQQP QP 360
Qy 361 AYGPFTKTVOSIEDKSCKNSILVAGPWHGGWTRAEGNYLGLD1QPEKRTSITYQEQQP QP 360
Db 361 AYGPFTKTVOSIEDKSCKNSILVAGPWHGGWTRAEGNYLGLD1QPEKRTSITYQEQQP QP 360
Qy 421 SWDEYYTDPNKPVPHOGGVIONPREYNNDDQRFAASRPDVNVYQTEPLTEDLTIVGPIK 480
Db 421 SWDEYYTDPNKPVPHOGGVIONPREYNNDDQRFAASRPDVNVYQTEPLTEDLTIVGPIK 480
Qy 421 SWDEYYTDPNKPVPHOGGVIONPREYNNDDQRFAASRPDVNVYQTEPLTEDLTIVGPIK 480
Db 421 SWDEYYTDPNKPVPHOGGVIONPREYNNDDQRFAASRPDVNVYQTEPLTEDLTIVGPIK 480
Qy 481 NPLKVSSSTGTADYVVKLIDVYFNDAASYQGKTMAGYQMMVRGEIMAGKVRNGFDKAQAL 540
Db 481 NPLKVSSSTGTADYVVKLIDVYFNDAASYQGKTMAGYQMMVRGEIMAGKVRNGFDKAQAL 540
Qy 481 NPLKVSSSTGTADYVVKLIDVYFNDAASYQGKTMAGYQMMVRGEIMAGKVRNGFDKAQAL 540
Db 481 NPLKVSSSTGTADYVVKLIDVYFNDAASYQGKTMAGYQMMVRGEIMAGKVRNGFDKAQAL 540
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Db 541 TPGMVERKNFEMPDVAHTFKKGHRIMYQVNQNSWFLAERNPOVFLAPTTAKADFRTAQ 600
Qy 541 TPGMVERKNFEMPDVAHTFKKGHRIMYQVNQNSWFLAERNPOVFLAPTTAKADFRTAQ 600
Db 541 TPGMVERKNFEMPDVAHTFKKGHRIMYQVNQNSWFLAERNPOVFLAPTTAKADFRTAQ 600
Qy 601 RIFHDVNNATYIEFSVLKD 619
Db 601 RIFHDVNNATYIEFSVLKD 619
Qy 601 RIFHDVNNATYIEFSVLKD 619
Db 601 RIFHDVNNATYIEFSVLKD 619

RESULT 5
US-10-876-673-12
; Sequence 12, Application US/10876673
; Publication No. US0050124035A1
; GENERAL INFORMATION:
; APPLICANT: YOKOZEKI, KENZO
; APPLICANT: OHNO, AYAKO
; APPLICANT: HARA, SEIICHI
; APPLICANT: ABE, ISAO
; TITLE OF INVENTION: METHOD FOR PRODUCING ALPHA-L-ASPARTYL-L-PHENYLALANINE-BETA-ESTE.
; TITLE OF INVENTION: ALPHA-L-ASPARTYL-L-PHENYLALANINE-ALPHA-METHYL ESTER
; FILE REFERENCE: 254836US0PCT
; CURRENT FILING DATE: 2004-06-28
; PRIOR APPLICATION NUMBER: PCT/JP2004/000620
; PRIOR FILING DATE: 2004-01-23
; PRIOR APPLICATION NUMBER: JP 2003-016764
; PRIOR FILING DATE: 2003-01-24
; PRIOR APPLICATION NUMBER: JP 2003-201819
; PRIOR FILING DATE: 2003-07-25
; PRIOR APPLICATION NUMBER: US 60/491,546
; PRIOR FILING DATE: 2003-08-01
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO: 12
; LENGTH: 619
; TYPE: PRT
; ORGANISM: Sphingobacterium sp.
; us-10-876-673-12

Query Match 100.0%; Score 3321; DB 5; Length 619;
Best Local Similarity 100.0%; Pred. No. 3.2e-260; Indels 0; Gaps 0;
Matches 619; Conservative 0; Mismatches 0; Type: PRT
us-10-876-673-12

Qy 1 MNTISCLTLAISOLHAQTAADSAYVRDHYEKTEVAPIPRDGKLLFTAIYSPKDKSK 60
Db 1 MNTISCLTLAISOLHAQTAADSAYVRDHYEKTEVAPIPRDGKLLFTAIYSPKDKSK 60
Db 61 KYPVLLNRPYTPYSPGNEYKKSIGNPQMMREGYIFVYQDVRGKMSSEGDFEDIRPTT 120
Db 61 KYPVLLNRPYTPYSPGNEYKKSIGNPQMMREGYIFVYQDVRGKMSSEGDFEDIRPTT 120
Qy 121 YSKDKRADESTDTYDALEWLQKNLKRNGKAGLYGSIYPGYFYSTVGLVTKTHPSLKAVSP 180
Db 121 YSKDKRADESTDTYDALEWLQKNLKRNGKAGLYGSIYPGYFYSTVGLVTKTHPSLKAVSP 180
Qy 181 QAPVTDWYTGDDFHNGYLFLQDAFTMISTFGVPRPKPITPQFKGK1QIKEADKYNFFA 240
Db 181 QAPVTDWYTGDDFHNGYLFLQDAFTMISTFGVPRPKPITPQFKGK1QIKEADKYNFFA 240

Qy 1 MNTISCLTLAISOLHAQTAADSAYVRDHYEKTEVAPIPRDGKLLFTAIYSPKDKSK 60
Db 1 MNTISCLTLAISOLHAQTAADSAYVRDHYEKTEVAPIPRDGKLLFTAIYSPKDKSK 60
Qy 61 KYPVLLNRPYTPYSPGNEYKKSIGNPQMMREGYIFVYQDVRGKMSSEGDFEDIRPTT 120
Db 61 KYPVLLNRPYTPYSPGNEYKKSIGNPQMMREGYIFVYQDVRGKMSSEGDFEDIRPTT 120
Qy 121 YSKDKRADESTDTYDALEWLQKNLKRNGKAGLYGSIYPGYFYSTVGLVTKTHPSLKAVSP 180
Db 121 YSKDKRADESTDTYDALEWLQKNLKRNGKAGLYGSIYPGYFYSTVGLVTKTHPSLKAVSP 180
Qy 181 QAPVTDWYTGDDFHNGYLFLQDAFTMISTFGVPRPKPITPQFKGK1QIKEADKYNFFA 240
Db 181 QAPVTDWYTGDDFHNGYLFLQDAFTMISTFGVPRPKPITPQFKGK1QIKEADKYNFFA 240

Db 61 KYPVLLNRTPTVSPYQNEYKKSLGNFPQMMREGYIFTYDQVRGKMMSEDDFEDIRPTT 120
 Qy 121 YSKDKKAIDESTDTYDALEWLNQKNLKNYNGKAGLYCISYPGFYSTVGLVYKTHPSLKAASP 180
 Db 121 YSKDKKAIDESTDTYDALEWLNQKNLKNYNGKAGLYCISYPGFYSTVGLVYKTHPSLKAASP 180
 181 QAPVTDMYIGDFHNCVLFLODAFTMSTGVPRPKTPDQPKCKIQIKEADCKNFFA 240
 Db 181 QAPVTDMYIGDFHNCVLFLODAFTMSTGVPRPKTPDQPKCKIQIKEADCKNFFA 240
 Qy 181 QAPVTDMYIGDFHNCVLFLODAFTMSTGVPRPKTPDQPKCKIQIKEADCKNFFA 240
 Db 181 QAPVTDMYIGDFHNCVLFLODAFTMSTGVPRPKTPDQPKCKIQIKEADCKNFFA 240
 241 EAGTARBLKEKYFGDSVQFNDLKFHKPFDYDDFWKSRTVNTSLSQEYKPAVMVGGFFDAED 300
 Db 241 EAGTARBLKEKYFGDSVQFNDLKFHKPFDYDDFWKSRTVNTSLSQEYKPAVMVGGFFDAED 300
 Qy 301 AYGTPKTYQSTEDKSCKNNILSVAGPWYHGWRQAEQNYLGDIQPEKKTSITYQQFEQP 360
 Db 301 AYGTPKTYQSTEDKSCKNNILSVAGPWYHGWRQAEQNYLGDIQPEKKTSITYQQFEQP 360
 361 PPKYKLDEGNPASEANIFYSGSNEMWKHFQWPKNVETKLYTOPQKLGLFDKVQRTD 420
 Db 361 PPKYKLDEGNPASEANIFYSGSNEMWKHFQWPKNVETKLYTOPQKLGLFDKVQRTD 420
 361 FPKYKLDEGNPASEANIFYSGSNEMWKHFQWPKNVETKLYTOPQKLGLFDKVQRTD 420
 Db 361 FPKYKLDEGNPASEANIFYSGSNEMWKHFQWPKNVETKLYTOPQKLGLFDKVQRTD 420
 421 SWDEYTDPNKPVPHQGGVIONTRTEYMDQFASRDPDVMYCOTEPLTEDLTVGPBK 480
 Qy 421 SWDEYTDPNKPVPHQGGVIONTRTEYMDQFASRDPDVMYCOTEPLTEDLTVGPBK 480
 Db 421 SWDEYTDPNKPVPHQGGVIONTRTEYMDQFASRDPDVMYCOTEPLTEDLTVGPBK 480
 481 NFLKVSSSTGTDADYVVKLIDYVPPHQGGVIONTRTEYMDQFASRDPDVMYCOTEPLTEDLTVGPBK 540
 Db 481 NFLKVSSSTGTDADYVVKLIDYVPPHQGGVIONTRTEYMDQFASRDPDVMYCOTEPLTEDLTVGPBK 540
 541 TPGMVKEVNFMEMPDVAHTFKKGHRIMVQVONSWPLAERNPQVFLAPYATKADPRKATQ 600
 Db 541 TPGMVKEVNFMEMPDVAHTFKKGHRIMVQVONSWPLAERNPQVFLAPYATKADPRKATQ 600
 541 TPGMVKEVNFMEMPDVAHTFKKGHRIMVQVONSWPLAERNPQVFLAPYATKADPRKATQ 600
 Qy 601 RIFHDVNNATYIEFSVLKD 619
 Db 601 RIFHDVNNATYIEFSVLKD 619
 Qy 601 RIFHDVNNATYIEFSVLKD 619
 Db 601 RIFHDVNNATYIEFSVLKD 619
 RESULT 6
 US-11-050-829-20
 ; Sequence 20, Application US/11050829
 ; Publication No. US20050176150A1
 ; GENERAL INFORMATION:
 ; APPLICANT: KIRA, IKUO
 ; APPLICANT: YOKOZEKI, KENZO
 ; APPLICANT: SUZUKI, SONOKO
 ; APPLICANT: MIHARA, YASUHIRO
 ; APPLICANT: HIRAO, YOSHINORI
 ; TITLE OF INVENTION: MUTANT MICROORGANISM AND METHOD FOR PRODUCING PEPTIDE USING THE
 ; FILE REFERENCE: 265063US0
 ; CURRENT FILING DATE: 2005-02-07
 ; PRIOR APPLICATION NUMBER: US 60/617,060
 ; PRIOR FILING DATE: 2004-10-12
 ; PRIOR APPLICATION NUMBER: JP 2004-029844
 ; NUMBER OF SEQ ID NOS: 22
 ; SOFTWARE: Patentin version 3.3
 ; SEQ ID NO 20
 ; LENGTH: 619
 ; TYPE: PRT
 ; ORGANISM: Sphingobacterium sp.
 ; US-11-050-829-20

Query Match 100.0%; Score 3321; DB 6; Length 619;
 Best Local Similarity 100.0%; Pred. No. 3.2e-260; Indels 0; Gaps 0;

1 MKNTISCLTLALLSASOLQAQTAAADSAYRDHYEKTVAIPMRDGKCLFTAIYSPDKSK 60
 1 MKNTISCLTLALLSASOLQAQTAAADSAYRDHYEKTVAIPMRDGKCLFTAIYSPDKSK 60

Db 61 KYPVLLNRTPTVSPYQNEYKKSLGNFPQMMREGYIFTYDQVRGKMMSEDDFEDIRPTT 120
 Qy 61 KYPVLLNRTPTVSPYQNEYKKSLGNFPQMMREGYIFTYDQVRGKMMSEDDFEDIRPTT 120
 Db 61 KYPVLLNRTPTVSPQNEFKSLSGNFPQMMREGYIFTYDQVRGKMMSEDDFEDIRPTT 120
 121 YSKDKKAIDESTDTYDALEWLNQKNLKNYNGKAGLYCISYPGFYSTVGLVYKTHPSLKAASP 180
 Db 121 YSKDKKAIDESTDTYDALEWLNQKNLKNYNGKAGLYCISYPGFYSTVGLVYKTHPSLKAASP 180
 181 QAPVTDMYIGDFHNCVLFLODAFTMSTGVPRPKTPDQPKCKIQIKEADCKNFFA 240
 Db 181 QAPVTDMYIGDFHNCVLFLODAFTMSTGVPRPKTPDQPKCKIQIKEADCKNFFA 240
 Qy 181 QAPVTDMYIGDFHNCVLFLODAFTMSTGVPRPKTPDQPKCKIQIKEADCKNFFA 240
 Db 181 QAPVTDMYIGDFHNCVLFLODAFTMSTGVPRPKTPDQPKCKIQIKEADCKNFFA 240
 241 EAGTARBLKEKYFGDSVQFNDLKFHKPFDYDDFWKSRTVNTSLSQEYKPAVMVGGFFDAED 300
 Db 241 EAGTARBLKEKYFGDSVQFNDLKFHKPFDYDDFWKSRTVNTSLSQEYKPAVMVGGFFDAED 300
 Qy 241 EAGTARBLKEKYFGDSVQFNDLKFHKPFDYDDFWKSRTVNTSLSQEYKPAVMVGGFFDAED 300
 Db 241 EAGTARBLKEKYFGDSVQFNDLKFHKPFDYDDFWKSRTVNTSLSQEYKPAVMVGGFFDAED 300
 301 AYGTPKTYQSTEDKSCKNNILSVAGPWYHGWRQAEQNYLGDIQPEKKTSITYQQFEQP 360
 Db 301 AYGTPKTYQSTEDKSCKNNILSVAGPWYHGWRQAEQNYLGDIQPEKKTSITYQQFEQP 360
 301 AYGTPKTYQSTEDKSCKNNILSVAGPWYHGWRQAEQNYLGDIQPEKKTSITYQQFEQP 360
 361 PPKYKLDEGNPASEANIFYSGSNEMWKHFQWPKNVETKLYTOPQKLGLFDKVQRTD 420
 Db 361 PPKYKLDEGNPASEANIFYSGSNEMWKHFQWPKNVETKLYTOPQKLGLFDKVQRTD 420
 361 FPKYKLDEGNPASEANIFYSGSNEMWKHFQWPKNVETKLYTOPQKLGLFDKVQRTD 420
 Db 361 FPKYKLDEGNPASEANIFYSGSNEMWKHFQWPKNVETKLYTOPQKLGLFDKVQRTD 420
 421 SWDEYTDPNKPVPHQGGVIONTRTEYMDQFASRDPDVMYCOTEPLTEDLTVGPBK 480
 Db 421 SWDEYTDPNKPVPHQGGVIONTRTEYMDQFASRDPDVMYCOTEPLTEDLTVGPBK 480
 481 NFLKVSSSTGTDADYVVKLIDYVPPHQGGVIONTRTEYMDQFASRDPDVMYCOTEPLTEDLTVGPBK 540
 Db 481 NFLKVSSSTGTDADYVVKLIDYVPPHQGGVIONTRTEYMDQFASRDPDVMYCOTEPLTEDLTVGPBK 540
 541 TPGMVKEVNFMEMPDVAHTFKKGHRIMVQVONSWPLAERNPQVFLAPYATKADPRKATQ 600
 Db 541 TPGMVKEVNFMEMPDVAHTFKKGHRIMVQVONSWPLAERNPQVFLAPYATKADPRKATQ 600
 541 TPGMVKEVNFMEMPDVAHTFKKGHRIMVQVONSWPLAERNPQVFLAPYATKADPRKATQ 600
 Qy 601 RIFHDVNNATYIEFSVLKD 619
 Db 601 RIFHDVNNATYIEFSVLKD 619
 Qy 601 RIFHDVNNATYIEFSVLKD 619
 Db 601 RIFHDVNNATYIEFSVLKD 619
 RESULT 7
 US-10-763-179-6
 ; Sequence 6, Application US/10763179
 ; Publication No. US20040204577A1
 ; GENERAL INFORMATION:
 ; APPLICANT: HARA, SEIICHI
 ; APPLICANT: YOKOZEKI, KENZO
 ; APPLICANT: TONOUCHI, ISAO
 ; APPLICANT: TONOUCHI, NAOTOKO
 ; APPLICANT: JOJIMA, YASUKO
 ; TITLE OF INVENTION: NOVEL PEPTIDE-FORMING ENZYME GENES
 ; FILE REFERENCE: 2478-BUSO
 ; CURRENT APPLICATION NUMBER: US/10/763,179
 ; CURRENT FILING DATE: 2004-01-26
 ; PRIOR APPLICATION NUMBER: JP 2003-16765
 ; PRIOR FILING DATE: 2003-01-24
 ; PRIOR APPLICATION NUMBER: US 60/491,612
 ; PRIOR FILING DATE: 2003-08-01
 ; NUMBER OF SEQ ID NOS: 27
 ; SOFTWARE: Patentin version 3.1
 ; SEQ ID NO 6
 ; LENGTH: 616
 ; TYPE: PRT
 ; ORGANISM: Empedobacter brevis
 ; US-10-763-179-6

Query Match 66.2%; Score 2198.5; DB 4; Length 616;
 Best Local Similarity 64.3%; Pred. No. 3.3e-169;
 Matches 395; Conservative 85; Mi-smatches 129; Indels 5; Gaps 2;

1 MKNTISCLTLALLSASOLQAQTAAADSAYRDHYEKTVAIPMRDGKCLFTAIYSPDKSK 60
 1 MKNTISCLTLALLSASOLQAQTAAADSAYRDHYEKTVAIPMRDGKCLFTAIYSPDKSK 60

Db 5 ISCLTLALLSASOLQAQTAAADSAYRDHYEKTVAIPMRDGKCLFTAIYSPDKSK 64

Query Match	66.2%	Score 2198.5;	DB 5;	Length 616;	US-10-859-405-6
Best Local Similarity	64.3%;	Pred. No. 3.3e-169;	Indels 5;	Gaps 2;	
Matches 395;	Conservative 85;	Mismatches 129;			
Query	5 ISCLTALLSASQLHACTADSAAYRDHYEKTEVALPMDRGKRLFTAIYSPFDKSCKYPV 64	Qy	66.2%;	Score 2199.5;	DB 5;
Db	8 VTLTLLIGSTYGAQDAKASAYAIRDNEYKEQVTPMDOTKLFATIYQPKDTRKQYPV 67	Query Match	64.3%;	Pred. No. 3.3e-169;	Length 616;
Qy	65 LLNRTPTVSPYGONEYKKSIGNFPMOMREGIFYQDVRGKWMSEGDFEDIRPTYSKD 124	Best Local Similarity	64.3%;	Indels 18	5; Gaps 2;
Db	68 LLNRTPTVAPGVNEYKKSIGNFPMOMREGIFYQDVRGKWMSEGEEFDVRPINPSKS 127	Matches 395;	Conservative 85;	Mismatches 129;	
Qy	125 KKAIDESTPTDYLQNLKNTYKAGLNGISPGFYSTVGKLYKTHSLKAVSQAPV 184	Qy	5 ISCLTALLSASQLHACTADSAAYRDHYEKTEVALPMDRGKRLFTAIYSPFDKSCKYPV 64		
Db	128 KKAIDESTDTPTFLTENLQNLKNTYKAGLNGISPGFYSTVGKLYKTHSLKAVSQAPV 187	Db	8 VTLTLLIGSTYGAQDAKASAYAIRDNEYKEQVTPMDOTKLFATIYQPKDTRKQYPV 67		
Qy	185 TDWYIGDDFHINGVLFLQDAFTFMSTGVPRAKPKITPDQPKGKIQIKEADKYNFFAEGT 244	Qy	65 LLNRTPTVSPYGONEYKKSIGNFPMOMREGIFYQDVRGKWMSEGDFEDIRPTYSKD 124		
Db	188 TNWFLGDDFHINGVLFLINDSFSEMTFGVQRPKRFPYPIKDNYRFTA-SGS 246	Db	68 LLNRTPTVAPGVNEYKKSIGNFPMOMREGIFYQDVRGKWMSEGEEFDVRPINPSKS 127		
Qy	245 ARELKSKYFGDSVQFWNDLPPKHDYDVFWSRVITNSLQFVQKPAVMVNGGFFEDADAYGT 304	Qy	125 KKAIDESTPTDYLQNLKNTYKAGLNGISPGFYSTVGKLYKTHSLKAVSQAPV 184		
Db	247 VRELKDKYLDQNLKFTNDLPPKHDYDVFWSRVITNSLQFVQKPAVMVNGGFFEDADYGA 306	Db	128 KKAIDESTDTPTFLTENLQNLKNTYKAGLNGISPGFYSTVGKLYKTHSLKAVSQAPV 187		
Qy	305 FKTQSLIEDKSKKNSILVAGPWHGGMWRAEGNYLQDQFKEKTSITIQEQFOPPFKY 364	Qy	185 TDWYIGDDFHINGVLFLQDAFTFMSTGVPRAKPKITPDQPKGKIQIKEADKYNFFAEGT 244		
Db	307 FETYKATEKONPKPATNIMVAGPWWNGTSDGMDFASNTSEHQQEIELPFPFY 366	Db	188 TNWFLGDDFHINGVLFLINDSFSEMTFGVQRPKRFPYPIKDNYRFTA-SGS 246		
Qy	365 YLKDEGNFAPSEANIFVGSNSNEWKHFBBOPKVNTEKLYFOPQSKGLGPDKVQRDSWDE 424	Qy	245 ARELKSKYFGDSVQFWNDLPPKHDYDVFWSRVITNSLQFVQKPAVMVNGGFFEDADAYGT 304		
Db	367 YLKDGKGNFKPTEATITFGNSNEWQDAWPKVNVTOKIYIQLQONGKIAFNKNTTTDE 426	Db	247 VELLDKDYLDQNLKFTNDLPPKHDYDVFWSRVITNSLQFVQKPAVMVNGGFFEDADYGA 306		
Qy	425 YTDTPNPKPVPHOGGYTQNTREYMDORPAAASRPDVMMYOTEPLTEDLTIVGPKNFLK 484	Qy	305 FKTQSLIEDKSKKNSILVAGPWHGGMWRAEGNYLQDQFKEKTSITIQEQFOPPFKY 364		
Db	427 YVADPNSPVPGGGVLIETRSBMYVDDQRFASTRPDVMMYQSDILTEDTLAGPVINHLV 486	Db	365 YLKDEGNFAPSEANIFVGSNSNEWKHFBBOPKVNTEKLYFOPQSKGLGPDKVQRDSWDE 424		
Qy	485 VSSTGNDADYYVKKLIDVYNDAAASYGKTMAGYQMMVRGEMIAGMCKYRNGFDKAQALTPGM 544	Qy	367 YLKDGKGNFKPTEATITFGNSNEWQDAWPKVNVTOKIYIQLQONGKIAFNKNTTTDE 426		
Db	487 VSTTGTDADYYVKKLIDVYNPENTPKTKNKLAMQYQNLRAETMRGKTCRNSFSNPEAMVPK 546	Qy	425 YVADPNSPVPGGGVLIETRSBMYVDDQRFASTRPDVMMYQSDILTEDTLAGPVINHLV 486		
Qy	545 VEKVNFBMPDVATHFKKGHRIMVQVNSWPLAERNPQVFLAPYPTAKADFRKATORTPH 604	Db	427 YVADPNSPVPGGGVLIETRSBMYVDDQRFASTRPDVMMYQSDILTEDTLAGPVINHLV 486		
Db	547 ETNVVTTMPDVGHTFKGHRIMVQVNSWPLADRNPQQPMVNYEATSDYLIKQTORTPH 606	Qy	485 VSSTGTDADYYVKKLIDVYNPENTPKTKNKLAMQYQNLRAETMRGKTCRNSFSNPEAMVPK 544		
Qy	605 DVNNATYIEFSVLUK 618	Db	487 VSTTGTDADYYVKKLIDVYNPENTPKTKNKLAMQYQNLRAETMRGKTCRNSFSNPEAMVPK 546		
Db	607 ---TSYIEIPVLUK 616	Qy	545 VEKVNFBMPDVATHFKKGHRIMVQVNSWPLAERNPQVFLAPYPTAKADFRKATORTPH 604		
RESULT 10	605 DVNNATYIEFSVLUK 618	Db	547 ETNVVTTMPDVGHTFKGHRIMVQVNSWPLADRNPQQPMVNYEATSDYLIKQTORTPH 606		
US-10-859-405-6	607 ---TSYIEIPVLUK 616	Db	607 ---TSYIEIPVLUK 616		
Sequence 6, Application US/10859405	RESULT 11	Db	607 ---TSYIEIPVLUK 616		
Publication No. US20050132154A1	US-10-871-673-6				
GENERAL INFORMATION:	Sequence 6, Application US/10876673				
APPLICANT: YOKOZEKI, KENZO	Publication No. US20050124035A1				
APPLICANT: SUZUKI, SONOKO	GENERAL INFORMATION:				
APPLICANT: HARA, SETICHI	APPLICANT: YOKOZEKI, KENZO				
APPLICANT: ABE, ISAO	APPLICANT: OHNO, AYAKO				
TITLE OF INVENTION: METHOD FOR PRODUCING TRIPETIDES AND/OR PEPTIDES LONGER THAN	APPLICANT: ABE, ISAO				
FILE REFERENCE: 254076US030	TITLE OF INVENTION: METHOD FOR PRODUCING ALPHA-L-ASPARTYL-L-PHENYLALANINE-ALPHA-METHYL ESTER				
CURRENT APPLICATION NUMBER: US/10859405	FILE REFERENCE: 254316US030				
PRIOR APPLICATION NUMBER: 254076US03	CURRENT APPLICATION NUMBER: US/10876673				
PRIOR FILING DATE: 2003-08-01	PRIOR FILING DATE: 2004-06-03				
PRIOR APPLICATION NUMBER: JP 2002-218958	PRIOR APPLICATION NUMBER: PCT/JP2004/000620				
PRIOR FILING DATE: 2002-07-26	PRIOR FILING DATE: 2004-01-23				
NUMBER OF SEQ ID NOS: 21	PRIOR APPLICATION NUMBER: JP 2003-016764				
SOFTWARE: PatentIn version 3.3	PRIOR FILING DATE: 2003-01-24				
SEQ ID NO 6	PRIOR APPLICATION NUMBER: JP 2003-201819				
LENGTH: 616	PRIOR FILING DATE: 2003-02-25				
TYPE: PRT	PRIOR APPLICATION NUMBER: US 60/491,546				
ORGANISM: Empedobacter brevis	PRIOR APPLICATION NUMBER: US 60/491,546				

PRIOR FILING DATE: 2003-08-01
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: PatentIn version 3.3

; SEQ ID NO: 6
; LENGTH: 616
; TYPE: PRT
; ORGANISM: Empedobacter brevis
US-10-876-673-6

Query Match Score 2198.5; DB 5; Length 616;
Best Local Similarity 64.3%; Pred. No. 3.3e-169;
Matches 395; Conservative 85; Mismatches 129; Indels 5; Gaps 2;
Query Match Score 2198.5; DB 6; Length 616;
Best Local Similarity 64.3%; Pred. No. 3.3e-169;
Matches 395; Conservative 85; Mismatches 129; Indels 5; Gaps 2;
; ORGANISM: Empedobacter brevis
US-11-050-829-14

Qy 5 ISCLTLALLSASQLHQTAADSAYRDHYBKTTEVALPMDRGKGLFLTAIVSPDKSKKCKYPV 64
Db 8 VTLTLLGSGTGVFAQDAKADSAYRDNYEKEIQTIPMDGTCTKLFATIYQPKDKTKQYPV 67

Qy 65 LLNRPPTVSPYQONEYKSLGNFQMMREGYIIFTYDVRGKWMSEGDFDIRPTYSKD 124
Db 68 LLNRPPTVSPYQONEYKSLGNFQMMREGYIIFTYDVRGKWMSEGFEFDPVNPNSKS 127

Qy 125 KRAIDESTDITYDALEWLQNLKNTKAGLISPGFYSTVGLYRTHPSLKAVALSQAPV 184
Db 128 KRAIDESTDTPDTLWLNQNLKNTKAGLISPGFYSTVGLYRTHPSLKAVALSQAPV 187

Qy 185 TDWYIGDDPHINGVLFQADPTFMSFTGVPFRPKPITPDOKGKQIKEADKYNPFAEAST 244
Db 188 TNWFLGDDPHINGVLFQADPTFMSFTGVPFRPKPITPDOKGKQIKEADKYNPFAEAST 244

Qy 245 ARELKVKYFGDSVQFTNDLKFHPDQDFMWSRVNTSLOETKPAINVGGFPDADAYGT 244
Db 248 VKELDKYLQDNKPYNDLFAHPDQDFMWSRVNTLPHLTNVQAPMTVGFFDADAYGT 244

Qy 305 FKYQSEIDSKKNNETLVAEGWYHCGSWVRAEGNTYDQEFEOPFKY 364
Db 307 FETYKAEBQNPKPATNMVAGFWHCGSWVRSNGSTPGDMQASNTSEHYYQIEIPEFFNY 366

Qy 365 YLKDEBNAPSBANIFVGSNEWKHFQWPQPKVNEKTYQPKGLGEFDKVRQRTDSNDE 424
Db 367 YLKDEBNAPSBANIFVGSNEWKHFQWPQPKVNEKTYQPKGLGEFDKVRQRTDSNDE 424

Qy 425 YTDPNPKVPFHOGGVQNTRFYMDQRFASRPDVMTQTEPLTDLTVPIKNFLK 484
Db 427 YVADPNSPVPYSGGVLERTSSREYVMDQRFASRPDVMTQTEPLTDLTVPIKNFLK 486

Qy 485 VSSTGTDADYVVLKLIDVYPTDAASYQSKTMQYOMMVRGE1MAGCYRNGFDRAQALTPGM 544
Db 487 VSTGTDADYVVLKLIDVYPTDAASYQSKTMQYOMMVRGE1MAGCYRNGFDRAQALTPGM 544

Qy 545 VEKVNPEMPDVAYHTPKKGHRIMQVONSNWPLAERNPQVFLAPYPATKAERKATORIFH 604
Db 547 ETNVTYTMPDVGHTFCKKGHRIMQVONSNWPLAERNPQVFLAPYPATKAERKATORIFH 606

Qy 605 DVNNATYIEFSVLUK 618
Db 607 ---TSYEIPVLUK 616

RESULT 12-
US-11-050-829-14
; Sequence 14, Application US/11050829
; GENERAL INFORMATION:
; Publication No. US20050176150A1
; APPLICANT: KIRA, IKUO
; APPLICANT: YOKOZEKI, KENZO
; APPLICANT: SUZUKI, SONOKO
; APPLICANT: MIHARA, YASUHIRO
; APPLICANT: HIRAO, YOSHINORI
; TITLE OF INVENTION: MUTANT MICROORGANISM AND METHOD FOR PRODUCING PEPTIDE USING THE
; TITLE OF INVENTION: RECOMBINANT POLYNUCLEOTIDE
; FILE REFERENCE: 26825US0
; CURRENT APPLICATION NUMBER: US/11/085,576
; CURRENT FILING DATE: 2005-03-22
; PRIOR APPLICATION NUMBER: JP 2004-083481

PRIOR FILING DATE: 2004-03-22
 NUMBER OF SEQ ID NOS: 28
 SOFTWARE: PatentIn version 3.3
 SEQ ID NO: 12
 LENGTH: 616
 TYPE: PRT
 ORGANISM: *Empedobacter brevis*
 US-11-085-576-3

Query Match	Score	DB	Length	DB	Length	DB	Length
Best Local Similarity	66.2%	2198.5;	6;	6;	594;	6;	594;
Matches	395;	Pred. No.	3..3e-169;	Mismatches	83;	Pred. No.	2..4e-168;
Conservative	85;	Indels	129;	Gaps	2;	Indels	11;
						Gaps	2;
5 ISCLTLAISASOLHAQTAAADSAYRDHYEKTEVAIPMRDGKLLFTAIYSPKDSSKKVY	64	Qy	24 ADSAYYRDHYEKTEVAIPMRDGKLLFTAIYSPKDSSKKVY	83	Qy	24 ADSAYYRDHYEKTEVAIPMRDGKLLFTAIYSPKDSSKKVY	83
8 VTLTLLJGTSVGAQDAKADSAVTDNYKEEQVTPMRGKLTGKLTQVY	67	Db	5 ADSAYYRDHYEKTEVAIPMRDGKLLFTAIYSPKDSSKKVY	64	Db	5 ADSAYYRDHYEKTEVAIPMRDGKLLFTAIYSPKDSSKKVY	64
65 LLNRTPTTSPYGONEYKKSIGNSPOMAREGYIIFYQDVKRGMSEGDFDIRPTTYSK	124	Qy	84 SGNPDMPPMREGYIIFTYQDVKRGMSEGDFDIRPTTYSK	143	Qy	84 SGNPDMPPMREGYIIFTYQDVKRGMSEGDFDIRPTTYSK	143
68 LLNRTPTTSPYGNEYKKSIGNSPENREGFITYQDVKRGMSEGDFDVRPINPSKS	127	Db	65 SGNPDTPEMRESFIFYYQDVKRGMSEGDFDVRPINPSKS	124	Db	65 SGNPDTPEMRESFIFYYQDVKRGMSEGDFDVRPINPSKS	124
125 KNAIDESDIDTYDALEWLQNLKNYNGKAGIYGISYPGFYSTVGLVTKTHPLKAVSPQA	184	Qy	144 NLKNTYKXAGITGISHYQFYSTMSLVLNVSHPTLKAVSPQA	184	Qy	144 NLKNTYKXAGITGISHYQFYSTMSLVLNVSHPTLKAVSPQA	184
128 KNAIDESDIDTYDALEWLQNLKNYNGKAGIYGISYPGFYSTVGLVTKTHPLKAVSPQA	187	Db	125 NLKNTYKXAGITGISHYQFYSTMSLVLNVSHPTLKAVSPQA	184	Db	125 NLKNTYKXAGITGISHYQFYSTMSLVLNVSHPTLKAVSPQA	184
185 TDWYIGDDDFHHNGVYLFLQDAFTIEMSTFGVERPKPDTDQFGKTOIKEADKYNFFAEACT	244	Qy	204 AFTFMSTFGVPRPKPDTDQFGKTOIKEADKYNFFAEACT	263	Qy	204 AFTFMSTFGVPRPKPDTDQFGKTOIKEADKYNFFAEACT	263
188 TNWFLGDFFHHNGVYLFLQDAFTIEMSTFGVERPKPDTDQFGKTOIKEADKYNFFAEACT	246	Db	185 SFSFMTFGVKRQPQPTPDKGPKRFPIKDYRFA-SGS	243	Db	185 SFSFMTFGVKRQPQPTPDKGPKRFPIKDYRFA-SGS	243
245 ARALKERYFGDSIQFWNLFLKPDIDTFKRSRVITNSLOQEYKQY	304	Qy	264 FKHPDIDDFWLSRVTINSLOQEYKQYPAVMVGGFFDAEDAYGTFTY	323	Qy	264 FKHPDIDDFWLSRVTINSLOQEYKQYPAVMVGGFFDAEDAYGTFTY	323
247 VKELKDKYFLQDNLFKYNDFLAHPDQDFQDRNVLPHTLNQPAVMTVGCFDAEDVYGA	306	Db	244 FAHPDIDQFWQRDNVLPHLTNVQPAVMTVGCFDAEDVYGA	303	Db	244 FAHPDIDQFWQRDNVLPHLTNVQPAVMTVGCFDAEDVYGA	303
305 FKYQSIEBKSKGKNSILVAGPMTHGGMTRAEQNGYLQDIOFKEKTSITYQEOPQEPFPKY	364	Qy	384 SNEWKFEQWPKNVSYKLYQPOQKLGKFDKVORTSDWEYTTDPKPVPHGGVIONR	443	Qy	384 SNEWKFEQWPKNVSYKLYQPOQKLGKFDKVORTSDWEYTTDPKPVPHGGVIONR	443
307 FETYKAIEQNPKATNIWAGPMFHGGWRSNGSTPQDQFQASFTSERHQBIELPFFY	366	Db	364 SNEWKQFDAWPKPNVTTQKIVLQONGKIAFKNKTINTTDFEYADPNSPVPYSGVLETR	423	Db	364 SNEWKQFDAWPKPNVTTQKIVLQONGKIAFKNKTINTTDFEYADPNSPVPYSGVLETR	423
365 YLKDEGNAFSEANIFVGSSENWCHFEQONPKPVKETKLYFOPQOKLGFPKVQRTDSDE	424	Qy	444 TREYMDQDREASRPDVYVQTEPLTEDLTIVGPKNFLKVSSTGTDADYVVKLIDVYP	503	Qy	444 TREYMDQDREASRPDVYVQTEPLTEDLTIVGPKNFLKVSSTGTDADYVVKLIDVYP	503
367 YLKDGKFNPKATEFTITFITSNEWQFQDAMPKPNVTTQKIVLQONGKIAFKNKTNTTDF	426	Db	424 SREYMDQDQREFASTRPQDVWYQSDILTEDITLAGPVINHLVSTGTDADYVVKLIDVYP	483	Db	424 SREYMDQDQREFASTRPQDVWYQSDILTEDITLAGPVINHLVSTGTDADYVVKLIDVYP	483
425 YTDPKNPKVPHGGVQVNTRTAVDDQFQAAFPDVYVQTEPLTEDLTIVGPKNFLK	484	Qy	504 NDAASTYQGKTMAGYQMVGRGEIMAGYKTRNGFDKAQALJTGMYVEKVNKFMPDVAHTPKKGH	563	Qy	504 NDAASTYQGKTMAGYQMVGRGEIMAGYKTRNGFDKAQALJTGMYVEKVNKFMPDVAHTPKKGH	563
427 YVADPNSPVYPSGCVLETRSREYMDQDQFRASTPQDVYVQSDILTEDITLAGPVINHLV	486	Db	504 :-----ENTPKFANKLMAGYQNLRAELMRGKTRNSFSNPKEVNTPVNTYMPDVGHTPKKGH	543	Db	504 :-----ENTPKFANKLMAGYQNLRAELMRGKTRNSFSNPKEVNTPVNTYMPDVGHTPKKGH	543
485 VSTGTDADYVVKLIDVYPNDAAASYQGKTMAGYQMVGRGEIMAGYKTRNGFDKAQALJTPRM	544	Qy	564 RIMVOYONSWEPLAERNPQVFLAPYATAKADFRKATORIIEHDVNNTATYIEFSVSK	618	Qy	564 RIMVOYONSWEPLAERNPQVFLAPYATAKADFRKATORIIEHDVNNTATYIEFSVSK	618
487 VSTGTDADYVVKLIDVTPNTPKFNNKLMAGYQMVGRGEIMAGYKTRNGFDKAQALJTPRM	546	Db	544 RIMIQYONSWEPLAERNPQVFLAPYATAKADFRKATORIIEHDVNNTATYIEFSVSK	594	Db	544 RIMIQYONSWEPLAERNPQVFLAPYATAKADFRKATORIIEHDVNNTATYIEFSVSK	594
545 VEKWNFEMPDAVHTFKKKHRIMYQVQNSWMPLAERNPQVFLAPYATAKADFRKATORIIE	604	RESULT 15	US-10-763-179-18	Sequence 18, Application US/10763179			
547 ETINVTFMPDQVHTFKKKHRIMYQVQNSWMPLAERNPQVFLAPYATAKADFRKATORIIE	604			Publication No. US20040204577A1			
605 DYNNTATYEFPSVLK 618				GENERAL INFORMATION:			
607 ---TSYEIIPVLIK 616				APPLICANT: HARA, SEIICHI			
				APPLICANT: YOKOZEKI, KENZO			
				APPLICANT: ABE, ISAO			
				APPLICANT: TONOUCHI, NAOTO			
				APPLICANT: JOJIMA, YASUO			
				TITLE OF INVENTION: NOVEL PEPTIDE-FORMING ENZYME GENES			
				FILE REFERENCE: 2478480			
				CURRENT APPLICATION NUMBER: US/10/763-179			
				PRIOR APPLICATION NUMBER: 2478480			
				CURRENT FILING DATE: 2004-01-26			
				PRIOR FILING DATE: 2003-01-24			
				PRIOR APPLICATION NUMBER: US 60/491,612			
				PRIOR FILING DATE: 2003-08-01			
				NUMBER OF SEQ ID NOS: 27			
				SOFTWARE: PatentIn version 3.1			
				SEQ ID NO: 18			
				SEQ ID NO: 18			
				LENGTH: 616			

TYPE: PRT
 ORGANISM: Pedobacter heparinus
 US-10-763-179-18

Query Match Similarity 62.7%; Score 2081; DB 4; Length 625;
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 6 SPSPIFLIFITSLSASAQ-QDSAYITRONTYKIERLJIPMRCGKIKLPTAIVPKDTSKKYP 64

64 VILLNRTTYTVSPYQNEVYKKSIGNFPMOMREGVIFYQDVKGKWMSEGDFEDIRPTYSK 123
 65 FMLNRIPYTVSPYGENNYKTSLGSPSLIFKEGFIPIVQDVKGKWMSEGKFEDVRPQASK 124

Qy 124 DKKA-IDESTDITYDALEWLQKLNLYNGKAGLYGSYGPFYSTVGUVKTHPSLKAVSPQA 182
 Db 125 KRKTIDDBSSDTIDTWLRLNTIPEGNRRKTGYGISYGPYATAALPDABSLKAVSPQA 184

Qy 183 PVTDMYIGDDFHANGULFLQDAFTENSTMFGYPRPKPTIPDFEKGIQIKEADKINPPFAA 242
 Db 185 PVTDWFFGDDFHANGULFLADIFSFYTFGVPRPQPTPDRPKPKPDFEPYKDNTREFFEL 244

Qy 243 GTPAREJKYFGDSVQFWNDLFKHFDYDEWKSRSVITNSLOEVKPRAMVYGGFFDAEADAY 302
 Db 245 GPLKNITKRYGDTIRWINDIAHNTDAFWKARNNTPHLGVKPAVLVGGFFDAEADLY 304

Qy 303 GTFKTYOSIEDKSKKNSILYAGPWTYHGGMVRAEGNLYGDIQFEKKTSLTYQQFEQOPFP 362
 Qy 305 GLTKTYQAIEKONPSSRNLYMGPWTYHGMRSTGSFQDINFQOPTTSYQONYEFPP 364

Qy 363 KYLLDEGNFAPSEANIFVCSNEWKHFQVPPKVNTEKLYFPOGCKLGPDKVORTDSW 422
 Db 365 MQYLKEAPDAKIAEATIFITGSNEWKFSKSSMPPQDTEERTLYLQPNQKLSFPEKVQRTDSW 424

Qy 423 DEYVTDENPKPVYLIDYYPND---AASYGKTMAGYOMMVRGEIMACKYRNGFDKAQ 538
 Db 425 DEYVSDENSPYQDGQTQSRTREIMDQRFAASRPDVRYFQTBLPLSDJLTGPVLAK 484

Qy 483 LKVSSTSSTDADYVVKLIDYYPND---AASYGKTMAGYOMMVRGEIMACKYRNGFDKAQ 538
 Qy 485 LVVSTRTSDADYVVKLIDYYPEDTPNPVPNPKNLIMGGYQMLVRGEIMACKYRNSFEKE 544

Qy 539 ALTPGMVYKINFEMPDVAYHTPKGHIRMVQYQNSWPLAERNPOVFLAPPYATKADFRKA 598
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Qy 599 TQRIFHDDVNNATYIEPSVLK 618
 Db 605 THRIFHDVHNASAITVNLK 624

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OM nucleic - nucleic search, using sw model

Run on: January 21, 2006, 15:45:47 ; Search time 1582.12 Seconds
(without alignments)

10113.830 Million cell updates/sec

Title: US-10-849-814-11

Perfect score: 1935

Sequence: 1 gaaaccaaatgttaaaatt.....attacgaggtaaatcggaa 1935

Scoring table: IDENTITY_NUC Gapop 10.0 , Gapext 1.0

Searched: 979352 seqs, 413468905 residues

Total number of hits satisfying chosen parameters: 19587084

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0% Maximum Match 100%

Listing first 45 summaries

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9: /cgn2_6/ptodata/1/pubna/US10E_PUBCOMB.seq;
10: /cgn2_6/ptodata/1/pubna/US11_PUBCOMB.seq;

Pred. No. is the number of results Predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

Result No. Score Query Match Length DB ID Description

Result No.	Score	Query	Match	Length	DB ID	Description	
1	1935	100.0	1935	8	US-10-763-179-11	<i>Aba</i>	
2	1935	100.0	1935	8	US-10-814-11	<i>ay</i>	
3	1935	100.0	1935	8	US-10-855-533-11	<i>ay</i>	
4	1935	100.0	1935	8	US-10-855-405-11	<i>ay</i>	
5	1935	100.0	1935	9	US-10-870-673-11	<i>ay</i>	
6	1935	100.0	1935	10	US-11-050-828-19	<i>ay</i>	
7	771	39.8	2024	8	US-10-763-179-5	<i>ay</i>	
8	771	39.8	2024	8	US-10-845-814-5	<i>ay</i>	
9	771	39.8	2024	8	US-10-855-533-5	<i>ay</i>	
10	771	39.8	2024	8	US-10-855-405-5	<i>ay</i>	
11	771	39.8	2024	9	US-10-870-673-5	<i>ay</i>	
12	771	39.8	2024	10	US-11-050-828-19	<i>ay</i>	
13	771	39.8	2024	10	US-11-055-828-19	<i>ay</i>	
14	694.6	35.9	1974	8	US-10-763-179-17	<i>ay</i>	
15	694.6	35.9	1974	8	US-10-855-533-17	<i>ay</i>	
16	694.6	35.9	1974	9	US-10-870-673-17	<i>ay</i>	
17	368.4	19.0	2018	8	US-10-763-179-22	<i>ay</i>	
18	368.4	19.0	2018	8	US-10-855-533-22	<i>ay</i>	
19	368.4	19.0	2018	9	US-10-870-673-22	<i>ay</i>	
20	332	17.2	1931	8	US-10-763-179-24	<i>ay</i>	
21	332	17.2	1931	8	US-10-855-533-24	<i>ay</i>	
22	332	17.2	1931	9	US-10-870-673-24	<i>ay</i>	
23	277	14.3	2036	8	US-10-855-533-26	<i>ay</i>	
24	277	14.3	2036	9	US-10-876-673-26	<i>ay</i>	
25	277	119.8	2.9	2731748	7	US-10-297-465A-1	
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c	27	55.8	2.9	3011208	7	Sequence 9 , Appli	
c	28	55.8	2.9	2252	7	Sequence 1912 , Appli	
c	29	50.4	2.6	2888	7	Sequence 3677 , Appli	
c	30	50.4	2.6	632	8	Sequence 55211 , A	
c	31	44.4	2.3	426	6	Sequence 135 , Appli	
c	32	43.4	2.2	6398	9	Sequence 45 , Appli	
c	33	41.8	2.2	6498	9	Sequence 33 , Appli	
c	34	41.8	2.2	7268	9	Sequence 43 , Appli	
c	35	41.8	2.2	7951	9	Sequence 27 , Appli	
c	36	41.8	2.2	9480	9	Sequence 42 , Appli	
c	37	41.8	2.2	9954	9	Sequence 23 , Appli	
c	38	41.8	2.2	15513	9	Sequence 23 , Appli	
c	39	41.8	2.2	16309	9	Sequence 24 , Appli	
c	40	41.8	2.2	16387	9	Sequence 25 , Appli	
c	41	41.8	2.2	16854	9	Sequence 22 , Appli	
c	42	41.8	2.2	18795	9	Sequence 13 , Appli	
c	43	41.8	2.2	19027	9	Sequence 21 , Appli	
c	44	41.8	2.2	19181	9	Sequence 20 , Appli	
c	45	41.8	2.2	19242	9	Sequence 20 , Appli	

ALIGNMENTS

RESULT 1						
US-10-763-179-11						
; Sequence 11 , Application US-107631179						
; Publication No. US20040204571A1						
; GENERAL INFORMATION:						
; APPLICANT: HARA, SEIICHI						
; APPLICANT: YOKOZU, KENZO						
; APPLICANT: ABE, ISAO						
; APPLICANT: TONOUCHI, NAOTO						
; APPLICANT: JOJIMA, YASURO						
; TITLE OF INVENTION: NOVEL PEPTIDE-FORMING ENZYME GENES						
; FILE REFERENCE: 247848100						
; CURRENT FILING DATE: 2004-01-26						
; PRIORITY APPLICATION NUMBER: JP 2003-16765						
; PRIORITY FILING DATE: 2003-01-24						
; PRIORITY APPLICATION NUMBER: US 60/491, 612						
; PRIORITY FILING DATE: 2003-08-01						
; SOFTWARE: PatentIn version 3.1						
; SEQ ID NO 11						
; LENGTH: 1935						
; TYPE: DNA						
; ORGANISM: Sphingobacterium sp.						
; FEATURE:						
; NAME/KEY: CDS						
; LOCATION: (61)..(1917)						
; OTHER INFORMATION:						
; US-10-763-179-11						
Qy 1 GAAACCAAGTGTAAATTATACTGAAACAATTAATTATCTGA 100.0%; Score 1935; DB 8; Length 1935;						
Best Local Similarity 100.0%; Pred. No. 0; Mismatches 0; Indels 0; Gaps 0;						
Matches 1935; Conservative 0;						
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Qy 61 ATGAAATAATACATTTCTGGCTTAACCTTACGGCTTTAACGGCAAGCCAGTTACGCT 120						
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Qy 121 CAAACAGTCGCCAGTCGGCTTATGAGATCATTTAGAAAGTCGAAAGTGA 180						
Db 121 CAAACAGTCGCCAGTCGGCTTATGAGATCATTTAGAAAGTCGAAAGTGA 180						

SUMMARIES

Result No.	Score	Query	Match	Length	DB ID	Description
1	1935	100.0	1935	8	US-10-763-179-11	<i>Aba</i>
2	1935	100.0	1935	8	US-10-814-11	<i>ay</i>
3	1935	100.0	1935	8	US-10-855-533-11	<i>ay</i>
4	1935	100.0	1935	8	US-10-855-405-11	<i>ay</i>
5	1935	100.0	1935	9	US-10-870-673-11	<i>ay</i>
6	1935	100.0	1935	10	US-11-050-828-19	<i>ay</i>
7	771	39.8	2024	8	US-10-763-179-5	<i>ay</i>
8	771	39.8	2024	8	US-10-845-814-5	<i>ay</i>
9	771	39.8	2024	8	US-10-855-533-5	<i>ay</i>
10	771	39.8	2024	8	US-10-855-405-5	<i>ay</i>
11	771	39.8	2024	9	US-10-870-673-5	<i>ay</i>
12	771	39.8	2024	10	US-11-050-828-19	<i>ay</i>
13	771	39.8	2024	10	US-11-055-828-19	<i>ay</i>
14	694.6	35.9	1974	8	US-10-763-179-17	<i>ay</i>
15	694.6	35.9	1974	8	US-10-855-533-17	<i>ay</i>
16	694.6	35.9	1974	9	US-10-870-673-17	<i>ay</i>
17	368.4	19.0	2018	8	US-10-763-179-22	<i>ay</i>
18	368.4	19.0	2018	8	US-10-855-533-22	<i>ay</i>
19	368.4	19.0	2018	9	US-10-870-673-22	<i>ay</i>
20	332	17.2	1931	8	US-10-763-179-24	<i>ay</i>
21	332	17.2	1931	8	US-10-855-533-24	<i>ay</i>
22	332	17.2	1931	9	US-10-870-673-24	<i>ay</i>
23	277	14.3	2036	8	US-10-763-179-26	<i>ay</i>

Qy	181 CCCATGGGAGATGGAAAAAAATTATTACTCGGATCTAACGTCCAAAAGGAAATTCAG 240	Db	1261 AAAAAGTAACTTCAACCTCAGGGAAACTGGATTGACAAGTCAACGTACAGAT 1320
Db	181 CCCATGGGAGATGGAAAAAAATTATTACTGGGATCTAACGTCCAAAAGGAAATTCAG 240	Qy	1321 TCCCTGGGATGATAATGTAACAGACCTTAATAAACCTGTTTCGGCATCAAAGTGGGTAATT 1380
Qy	241 AAATATCGAAGTTGGCTCAATAGAAACCCTAACCGTTAACCTATGGGATCTAACGTCCAAAAGGAAATTCAG 240	Db	1321 TCCCTGGGATGATAATGTAACAGACCTTAATAAACCTGTTTCGGCATCAAAGTGGGTAATT 1380
Db	241 AAATATCGAAGTTGGCTCAATAGAAACCCTAACCGTTAACCTATGGGCAAGGAA 300	Qy	1381 CAAACGAAACGGAGATATGGTAGAATGTCACAGCTTGCGGCTAGTCGCCCTGAT 1440
Qy	301 TATAAAAAGCTGGGAAACTTCCCCAAATGATCGGTGAAGGCTATATTTCGTTAAC 360	Db	1381 CAAACGAAACGGAGATATGGTAGAATGTCACAGCTTGCGGCTAGTCGCCCTGAT 1440
Db	301 TATAAAAAGCTGGGAAACTTCCCCAAATGATCGGTGAAGGCTATATTTCGTTAAC 360	Qy	1441 GTCATGGTTATCAACGGAAACCTGTGACGGAGACTGAGATACTGGCCCAATCAA 1500
Qy	361 CAGGATCTCGTGGCAAGTGGATGAGGAAGTGTGTTGAGATAATCGTCCGACAG 420	Db	1441 GTCATGGTTATCAACGGAAACCTGTGACGGAGACTGAGATACTGGCCCAATCAA 1500
Db	361 CAGGATCTCGTGGCAAGTGGATGAGGAAGTGTGTTGAGATAATCGTCCGACCCAG 420	Qy	1501 AACTTCTCAAGTTCTCAAGGAAACAGACGGGACTATGTTCTCAAACTGTGTCAC 1560
Qy	421 TACAGCAAGATAAAAAGCAATGATGAGGAAGTGTGTTGAGATAATCGTCCGAC 480	Db	1501 AACTTCTCAAGTTCTCAAGGAAACAGACGGGACTATGTTCTCAAACTGTGTCAC 1560
Db	421 TACAGCAAGATAAAAAGCAATGATGAGGAAGTGTGTTGAGATAATCGTCCGAC 480	Qy	1561 GTTATPCGAATGATGATCGAGTATCGAAAGTATCGAAAAAACATGGGGATATCAAATGATG 1620
Qy	481 TTACAGAAAAAATCTCAAAAACATAATGCAAAAGGCCGCTCTATGGGATTCCTPATCCA 540	Db	1561 GTTATPCGAATGATGATCGAGTATCGAAAGTATCGAAAAAACATGGGGATATCAAATGATG 1620
Db	481 TTACAGAAAAAATCTCAAAAACATAATGCAAAAGGCCGCTCTATGGGATTCCTPATCCA 540	Qy	1621 GTACCTGGTGGAGATCATGGCCGGAAAATACCGAAATGGTTTCGATTAAGGCCGCGCTTG 1680
Qy	541 GGCTTCTPATCTTACCGTGGATGGTCAAAACACCCGAGCTTGAGGCAAGTCTCCCA 600	Db	1621 GTACCTGGTGGAGATCATGGCCGGAAAATACCGAAATGGTTTCGATTAAGGCCGCGCTTG 1680
Db	541 GGCTTCTPATCTTACCGTGGATGGTCAAAACACCCGAGCTTGAGGCAAGTCTCCCA 600	Qy	1681 ACTCCAGGTTGGTCAAAAGGTGATTTCGATTAAGGCCGAGCTTCGCAATACCTTCAAA 1740
Qy	601 CAGGCCTCCGTAACAGACTGGTATATGGGACGAATTCACCATATGGGTAATGTGTT 660	Db	1681 ACTCCAGGTTGGTCAAAAGGTGATTTCGATTAAGGCCGAGCTTCGCAATACCTTCAAA 1740
Db	601 CAGGCCTCCGTAACAGACTGGTATATGGGACGAATTCACCATATGGGTAATGTGTT 660	Qy	1741 AAAGGACATCCATPATGGTTCAGGTACAAACACTATGGTTCCGTTGGAGAAACAAAT 1800
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Db	661 CTTCAGGATGCAATTTCAGTGTCAACCTTGGCTCCCTCGTCCAAACCCATTACA 720	Qy	1801 CCACAGGTGTTTACCCATTATAGCTTACCAAGTCAACCTTGGTCCAAAGTCACCAA 1860
Qy	721 CGGGATCAATTAAAGGCCAAAATTCAAGATCAAAAGGCCGATAAATATAACTTTTTCGA 780	Db	1801 CCACAGGTGTTTACCCATTATAGCTTACCAAGTCAACCTTGGTCCAAAGTCACCAA 1860
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Qy	781 GAAGCAGGAACGGCGGAACCTCAAGAAAGTATTGGTGAATTCGTAACCTTTGG 840	Db	1861 CGTATTTTTCAGGATGTCGAACATACCGAACATCCGCAAAAGGATTAG 1920
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Qy	841 AATGACCTGTTAACGATCCCACATGATGATTGTTGGAAATTCGCGTGTGATCACGAAT 900	Db	1921 CAGGTAATTGCAA 1935
Db	841 AATGACCTGTTAACGATCCCACATGATGATTGTTGGAAATTCGCGTGTGATCACGAAT 900	RESULT 2	
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Db	901 TCTTTACAGGGCTAACCGCTGGATGTTGGAAATTCGCGTGTGATCACGAAT 960		FILE REFERENCE: Sequence 11, Application US/10849814
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Qy	1021 ATTTTACAGGGCTAACCGCTGGATGTTGGAAACACTATTAACTTCAACCA 1080		APPLICANT: YOKOZEKI, KENZO
Db	1021 ATTTTACAGGGCTAACCGCTGGATGTTGGAAACACTATTAACTTCAACCA 1080		APPLICANT: SUZUKI, SONOKO
Qy	1081 GGTGATATCCAATTGGAAAAAAACGATTAATCTTCAACCA 1140		APPLICANT: HARAI, SEIICHI
Db	1081 GGTGATATCCAATTGGAAAAAAACGATTAATCTTCAACCA 1140		APPLICANT: ABE, ISAO
Qy	1141 TTTTCAATATTACCTAAAGTGAAGGAAACTTCGCGTGTGAACTTATT 1200		TITLE OF INVENTION: METHOD FOR PRODUCING TRIPPLEIDES AND/OR PEPTIDES LONGER THAN TRIPLETS
Db	1141 TTTTCAATATTACCTAAAGTGAAGGAAACTTCGCGTGTGAACTTATT 1200		FILE REFERENCE: 252308US00CONT
Qy	1201 GTTTCAGGCAACGGAAACCTTCGCGTGTGAACTTGGTCAACGGAAACTTATT 1260		CURRENT APPLICATION NUMBER: US/10/849_814
Db	1201 GTTTCAGGCAACGGAAACCTTCGCGTGTGAACTTGGTCAACGGAAACTTATT 1260		PRIOR APPLICATION NUMBER: PCT/JP03/09466
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			TYPE: DNA
			ORGANISM: sphingobacterium sp.
			FEATURE:
			NAME/KEY: CDS

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Matches 1935;	Conservative 0;	Mismatches 0;					
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Qy	61 ATGAAAATAATCAATTTCGTCCTAACCTTTCGGCCTAACGCCAGTTACATGCT 120						
Db	61 ATGAAAATAATCAATTTCGTCCTAACCTTTCGGCCTAACGCCAGTTACATGCT 120						
Qy	121 CAAACAGCTGGCGACTGGCTTATGTTAGAGTCATATGAAAGACCGAATGCAATT 180						
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Qy	181 CCCATGGGAGATGGTGGAAAATAATTACTGGCATCTAACGTCCTAAAGAACAAATCCAAAG 240						
Db	181 CCCATGGGAGATGGTGGAAAATAATTACTGGCATCTAACGTCCTAAAGAACAAATCCAAAG 240						
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Db	241 AAATATCCAGTTTGCTCAATAGAACGCCCTAACCGGTTTACACGGTTTACGGGCTATGGCAGAACAGAA 300						
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Db	301 TATAAAAAAGTTGGAAAATTCCTCCAAATAGTCGGTGAAGGTTATATTTCGTTTAC 360						
Qy	361 CAGGATGTCCTGGCAAAGTGGATGAGCGGAAGGTGATTITGAGATAATGGTCGACCAAG 420						
Db	361 CAGGATGTCCTGGCAAAGTGGATGAGCGGAAGGTGATTITGAGATAATGGTCGACCAAG 420						
Qy	421 TACAGAAAGTAAAGCAATGTCGAAGTACCTATGTCGGTTGATGG 480						
Db	421 TACAGAAAGTAAAGCAATGTCGAAGTACCTATGTCGGTTGATGG 480						
Qy	481 TTACAGAAAATCTCAAAAACCTAAATGGCAAAAGCCGGCTTATGGGATTCTCPATCCA 540						
Db	481 TTACAGAAAATCTCAAAAACCTAAATGGCAAAAGCCGGCTTATGGGATTCTCPATCCA 540						
Qy	541 GGCTCTTATCTTACCGTCGGATTGTCACAAACAACCCGAGCTGGCGATCTCCCCA 600						
Db	541 GGCTCTTATCTTACCGTCGGATTGTCACAAACAACCCGAGCTGGCGATCTCCCCA 600						
Qy	601 CAGGTCTCCGTAACAGACTGGTATATGGCGACGAACTTCACACATAATGGCTATTTGTT 660						
Db	601 CAGGTCTCCGTAACAGACTGGTATATGGCGACGAACTTCACACATAATGGCTATTTGTT 660						
Qy	661 CCTTCAAGATGGATCACCTGCAACCTTGGCTTCTCCGTCCAAACCATTACA 720						
Db	661 CCTTCAAGATGGATCACCTGCAACCTTGGCTTCTCCGTCCAAACCATTACA 720						
Qy	721 CGGATCAATTAAAGGCAAAATTCAAGTCAGAAAGACGCCGATAATACTTTCGCA 780						
Db	721 CGGATCAATTAAAGGCAAAATTCAAGTCAGAAAGACGCCGATAATACTTTCGCA 780						
Qy	781 GAAGCAGGAAACAGCGGGGAACCTCAAGAAAGTATTTCGGTAGCTACAAATTTCGG 840						
Db	781 GAAGCAGGAAACAGCGGGGAACCTCAAGAAAGTATTTCGGTAGCTACAAATTTCGG 840						
Qy	841 ATGACTCTGGTTAGATCCGCACATGATGATTTGGAAATCGGTGAACTCAGAAT 900						
Db	841 ATGACTCTGGTTAGATCCGCACATGATTTGGAAATCGGTGAACTCAGAAT 900						
Qy	901 TCTTACAGGGTAAACCGCTGTTCTTGTGAACTGGTTCTTGTGAACTGGAGAT 960						
Db	901 TCTTACAGGGTAAACCGCTGTTCTTGTGAACTGGTTCTTGTGAACTGGAGAT 960						
Qy	961 GCTTATGGACATTAGACCTACATGATGATTTGGAAACAAACACTCG 1020						
Db	961 GCTTATGGACATTAGACCTACATGATGATTTGGAAACAAACACTCG 1020						
Qy	1021 ATTTCAGTCGGGACACTTGGTATCATGGGGTTCTGGTCAAGAGAAACTATTAA 1080						
Db	1021 ATTTCAGTCGGGACACTTGGTATCATGGGGTTCTGGTCAAGAGAAACTATTAA 1080						
Qy	1081 GGCATATTCGAATTGGAGAAACAGTATTACTATCAGGAACTTGTGAACTCCA 1140						
Db	1081 GGTGATATCCAAATTGGAGAAACAGTATTACTATCAGGAACTTGTGAACTCCA 1140						
Qy	1141 TTTTCGAATTAACTTAAAGATGAAAGAAACTTCGGAGCTAACCTTTT 1200						
Db	1141 TTTTCGAATTAACTTAAAGATGAAAGAAACTTCGGAGCTAACCTTTT 1200						
Qy	1201 GTTTCAGGACGAAAGGAACTTCGGCTTCCGGCCTTCGGAGTAACTTT 1260						
Db	1201 GTTTCAGGACGAAAGGAACTTCGGCTTCCGGCCTTCGGAGTAACTTT 1260						
Qy	1201 GTTTCAGGACGAAAGGAACTTCGGCTTCCGGCCTTCGGAGTAACTTT 1320						
Db	1201 GTTTCAGGACGAAAGGAACTTCGGCTTCCGGCCTTCGGAGTAACTTT 1320						
Qy	1321 TCCCTGGTGAATTAGTGTACAGACCCCTAAATAACCTGTTCCGATCAAGTGGCTTAATT 1380						
Db	1321 TCCCTGGTGAATTAGTGTACAGACCCCTAAATAACCTGTTCCGATCAAGTGGCTTAATT 1380						
Qy	1381 CAAACCGAACCGGAAACACGGGAGTATATGGTAGTGTACAACTGGTTCTGGCTGAT 1440						
Db	1381 CAAACCGAACACGGGAGTATATGGTAGTGTACAACTGGTTCTGGCTGAT 1440						
Qy	1441 GTCATGGTTTATCAACGGAAACCTTGGCGGAGACTGAGATAATCCAAAC 1500						
Db	1441 GTCATGGTTTATCAACGGAAACCTTGGCGGAGACTGAGATAATCCAAAC 1500						
Qy	1501 AACCTTCICAAAGTTCTCAACGGAACAGACCGACTATGGTCTCAAACTGTGAC 1560						
Db	1501 AACCTTCICAAAGTTCTCAACGGAACAGACCGACTATGGTCTCAAACTGTGAC 1560						
Qy	1561 GTTATCCGAATGATGAGCAAGTTCAAGGAAACATGGTCAATATGATG 1620						
Db	1561 GTTATCCGAATGATGAGCAAGTTCAAGGAAACATGGTCAATATGATG 1620						
Qy	1621 GTACGTGGTGGAGATCTGGGGGGAAATACCGGAAATGGTGTGATCATAGTGT 1680						
Db	1621 GTACGTGGTGGAGATCTGGGGGGAAATACCGGAAATGGTGTGATCATAGTGT 1680						
Qy	1680 1 AAGGACATGCATTATGGTCAAACTCATGGTCAAACTTCGGAGAACTAAT 1800						
Db	1680 1 AAGGACATGCATTATGGTCAAACTCATGGTCAAACTTCGGAGAACTAAT 1800						
Qy	1741 CCAGGGCTTCTGGCTGAACTGGTCAAACTTCGGAGAACTAAT 1860						
Db	1741 CCAGGGCTTCTGGCTGAACTGGTCAAACTTCGGAGAACTAAT 1860						
Qy	1801 CCAGGGCTTCTGGCTGAACTGGTCAAACTTCGGAGAACTAAT 1860						
Db	1801 CCAGGGCTTCTGGCTGAACTGGTCAAACTTCGGAGAACTAAT 1860						
Qy	1861 CGTATTTCACGATGTCACATGCAATCGGAATTTCGTCCTCAAAAGATTAG 1920						
Db	1861 CGTATTTCACGATGTCACATGCAATCGGAATTTCGTCCTCAAAAGATTAG 1920						
Qy	1921 CAGCTAAATTTCGAAA 1935						
Db	1921 CAGCTAAATTTCGAAA 1935						

RESULT 3
US-10-855-533-11
; Sequence 11, Application US/10855533
; Publication No. US20050019864A1
; GENERAL INFORMATION:

RESULT 3 US-10-855-533-11
; Sequence 11, Application US/10855533
; Publication No. US2005001964A1
; GENERAL INFORMATION:

APPLICANT: HARA, SEIICHI
 APPLICANT: YOKOZEKI, KENZO
 APPLICANT: ABE, ISAO
 APPLICANT: TONOUCHI, NAOTO
 APPLICANT: JOJIMA, YASUKO
 TITLE OF INVENTION: NOVEL PEPTIDE-FORMING ENZYME GENES
 FILE REFERENCE: 25578US0
 CURRENT APPLICATION NUMBER: US/10/855,533
 PRIOR APPLICATION NUMBER: PCT/JP03/09468
 PRIOR FILING DATE: 2003-07-25
 PRIOR APPLICATION NUMBER: JP 2002-218957
 PRIOR FILING DATE: 2002-07-26
 PRIOR APPLICATION NUMBER: JP 2003-16765
 PRIOR FILING DATE: 2003-01-24
 NUMBER OF SEQ ID NOS: 27
 SEQ ID NO: 11
 LENGTH: 1935
 TYPE: DNA
 ORGANISM: Sphingobacterium sp.
 FEATURE:
 NAME/KEY: CDS
 LOCATION: (61) . (1917)
 OTHER INFORMATION:
 US-10-855-533-11

Query Match 100. 0% Score 1935; DB 8; Length 1935;
 Best Local Similarity 100. 0%; Pred. No. 0;
 Matches 1935; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy	1	GAAACCAAGTGTAAAATTATTAATTATCACCAAAAGAATGTACTGACAATAATTATCGA	60
Db	1	GAAACCAAGTGTAAAATTATTAATTATCACCAAAAGAATGTACTGACAATAATTATCGA	60
Qy	61	ATGAAAATACAAATTGCGCTAACCTTAGCGCTTTAACGGCAAGCAGTTACATGCT	120
Db	61	ATGAAAATACAAATTGCGCTAACCTTAGCGCTTTAACGGCAAGCAGTTACATGCT	120
Qy	121	CAAACAGCTGCCGACTCGGCTTATGTTAGCATTTAACGGCAAGCAGTTACATGCT	180
Db	121	CAAACAGCTGCCGACTCGGCTTATGTTAGCATTTAACGGCAAGCAGTTACATGCT	180
Qy	181	CCATGGGAGATGGAAAATTATTCATCGCATTTAACGGCAAGCAGTTACATGCT	240
Db	181	CCATGGGAGATGGAAAATTATTCATCGCATTTAACGGCAAGCAGTTACATGCT	240
Qy	241	AAATATCCAGTTTGCTCAATTAGAACGCCTAACCGTTTACACGGTATGGCGCAAGAA	300
Db	241	AAATATCCAGTTTGCTCAATTAGAACGCCTAACCGTTTACACGGTATGGCGCAAGAA	300
Qy	301	TATAAAAACCTGGAAACTTCCCCTAATTGTCGTTAGGTATATTTCGTTAAC	360
Db	301	TATAAAAACCTGGAAACTTCCCCTAATTGTCGTTAGGTATATTTCGTTAAC	360
Qy	361	CAGGATGTCGTCGCAAGTGTGAAAGTGTGAAAGTGTGAAAGTGTGAAAGTGTGAA	420
Db	361	CAGGATGTCGTCGCAAGTGTGAAAGTGTGAAAGTGTGAAAGTGTGAAAGTGTGAA	420
Qy	421	TACAGCAAGATAAAAAGCAATCTGATGAAAGTACGGTAACTTATGTCGCTGAATGG	480
Db	421	TACAGCAAGATAAAAAGCAATCTGATGAAAGTACGGTAACTTATGTCGCTGAATGG	480
Qy	481	TTACAGAAAATTCTCAAAAACATTAATGGCAAGGGCTCTANGGATTCTATCCA	540
Db	481	TTACAGAAAATTCTCAAAAACATTAATGGCAAGGGCTCTANGGATTCTATCCA	540
Qy	541	GGCTTCTTAATTCTACCGTGGATTGGTCAAAACACCCGAGCTTCACCAATAATGGGTATGTT	600
Db	541	GGCTTCTTAATTCTACCGTGGATTGGTCAAAACACCCGAGCTTCACCAATAATGGGTATGTT	600
Qy	601	CAGGCTCCGTAACAGACTGGTATATGGCAAGACTTCACCAATAATGGGTATGTT	660

Qy	1741	AAAGGACATCGCATTATGGTCAGGTACAAACTCATGGTTCGCGCTGGCAGAACGAAAT	1800	Db	301	TATAAAAAAGCTTGGAAAACTTTCCCAAATGATGGTGAAGCTATATTTCTGTTTAC	360
Db	1741	AAAGGACATCGCATTATGGTCAGGTACAAACTCATGGTTCGCGCTGGCAGAACGAAAT	1800	Qy	361	CGGGATGTCCTGGCAAGTGTGATTGAGCTGGGAAGGTGATTTCGACACAGC	420
Qy	1801	CCACAGGTTTGTAGGCCCTTATACAGCTACAAAGTGATTTCGCCAAGCTACCAA	1860	Db	361	CAGGATGTCCTGGCAAGTGTGATTGAGCTGGGAAGGTGATTTCGACACAGC	420
Db	1801	CCACAGGTTTGTAGGCCCTTATACAGCTACAAAGTGATTTCGCCAAGCTACCAA	1860	Qy	421	TACAGCAAAAGATAAAAGCATGTGATAACTCTGATGCTGTGAAATGTTG	480
Qy	1861	CGTATTTTCACTGTGAAATGCCACATGCCACATACATGAAATTCGCTCAAAGTTG	1920	Db	421	TACAGCAAAAGATAAAAGCATGTGATAACTCTGATGCTGTGAAATGTTG	480
Db	1861	CGTATTTTCACTGTGAAATGCCACATGCCACATACATGAAATTCGCTCAAAGTTG	1920	Qy	481	TTACAGAAAATCTCAAAGACTATATGGCAAAAGCCGGCTATGGGATTTCCTATCCA	540
Qy	1921	CACTGTAATTCGAA 1935		Db	481	TTACAGAAAATCTCAAAGACTATATGGCAAAAGCCGGCTATGGGATTTCCTATCCA	540
Db	1921	CACTGTAATTCGAA 1935		Qy	541	GGCTCTPATTCTACCTGCGGATTCACACACACCCGAACTTGCAGGCACTCTCCCCA	600
Db				Db	541	GGCTCTPATTCTACCTGCGGATTCACACACACCCGAGGTGAGGGAGTCCTCCC	600
Qy				Qy	601	CAGGCTCCGTAACAGACTGTATATGGCTTAACTTGCACCATATGGCTTATTT	660
Db				Db	601	CAGGCTCCGTAACAGACTGTATATGGCTTAACTTGCACCATATGGCTTATTT	660
Qy				Qy	661	CTTCAGGATGCAATTACATTGTCACCTTGTGCTGTCCTCGTCCAAAACCCATTACA	720
Db				Db	661	CTTCAGGATGCAATTACATTGTCACCTTGTGCTGTCCTCGTCCAAAACCCATTACA	720
Qy				Qy	721	CCGGATCAAAATTAGGGCAAATTCTGATCAANGGCCATAAAATAACTTTTGCA	780
Db				Db	721	CCGGATCAAAATTAGGGCAAATTCTGATCAANGGCCATAAAATAACTTTTGCA	780
Qy				Qy	781	GAAGCAGGAACGGGAACTCAALAGAAAGTATTGTGTGATCTCGTAAATTTGG	840
Db				Db	781	GAAGCAGGAACGGGAACTCAALAGAAAGTATTGTGTGATCTCGTAAATTTGG	840
Qy				Qy	841	AATGACCTGTTAACGATCCGGACTATGATGATGAAAGTATTGTGTGATCTCGTAA	900
Db				Db	841	AATGACCTGTTAACGATCCGGACTATGATGATGAAAGTATTGTGTGATCTCGTAA	900
Qy				Qy	901	TCTTACAGGAGTAAACCGCTGCTGATGGTCTTCTGAGGGAGAT	960
Db				Db	901	TCTTACAGGAGTAAACCGCTGCTGATGGTCTTCTGAGGGAGAT	960
Qy				Qy	961	GCTTATGAACTTAACTTAAAGCTACAACTGATTGAGATAAAAGCAAAACTCG	1020
Db				Db	961	GCTTATGAACTTAACTTAAAGCTACAACTGATTGAGATAAAAGCAAAACTCG	1020
Qy				Qy	1021	ATTATGTCGGGGACTTGGTATCTGGGCTTGGTTCTGAGGAAACTATTTA	1080
Db				Db	1021	ATTATGTCGGGGACTTGGTATCTGGGCTTGGTTCTGAGGAAACTATTTA	1080
Qy				Qy	1081	GGTGATTCACATTGAACTTAAACCACTTACCTTACGAAACTTTCGACACCA	1140
Db				Db	1081	GGTGATTCACATTGAACTTAAACCACTTACCTTACGAAACTTTCGACACCA	1140
Qy				Qy	1141	TTTTCAAAATTACCTAAAGTAAAGTAAAGTAAAGTAAAGTAAAGTAAAGTAA	1200
Db				Db	1141	TTTTCAAAATTACCTAAAGTAAAGTAAAGTAAAGTAAAGTAAAGTAAAGTAA	1200
Qy				Qy	1201	TTTCAAGGAGCAAACTTCAAGGAGCAAACTTCAAGGAGCAAACTTCAAGGAGCA	1260
Db				Db	1201	TTTCAAGGAGCAAACTTCAAGGAGCAAACTTCAAGGAGCAAACTTCAAGGAGCA	1260
Qy				Qy	1261	AAAACACTATACTCAGCTCCGCTAACCTTCAAGGAGCAAACTTCAAGGAGCA	1320
Db				Db	1261	AAAACACTATACTCAGCTCCGCTAACCTTCAAGGAGCAAACTTCAAGGAGCA	1320
Qy				Qy	1321	TCCTGGGATGAACTTAAACCTGTTGGCATCTAGGTTGGGTAAATT	1380
Db				Db	1321	TCCTGGGATGAACTTAAACCTGTTGGCATCTAGGTTGGGTAAATT	1380
Qy				Qy	1381	CAAACCGAACACGGAGATAATGGTAGATGATCACTTACGCTTCCCTGAT	1440
Db				Db	1381	CAAACCGAACACGGAGATAATGGTAGATGATCACTTACGCTTCCCTGAT	1440

RESULT 4

US-10-859-405-11

; Sequence 11, Application US/10859405

; General Information

; Publication No. US200500321541

; APPLICANT: YOKOZEKI, KENZO

; APPLICANT: SUZUKI, SONOKO

; APPLICANT: HARA, SEIICHI

; APPLICANT: ABE, ISAO

; TITLE OF INVENTION: METHOD FOR PRODUCING TRIPEPPTIDES AND/OR PEPTIDES LONGER THAN

; FILE REFERENCE: 254070010

; CURRENT FILING DATE: 2004-06-03

; PRIORITY APPLICATION NUMBER: US 60/491,547

; PRIOR FILING DATE: 2003-08-01

; PRIORITY APPLICATION NUMBER: JP 2002-218958

; NUMBER OF SEQ ID NOS: 21

; SOFTWARE: PatentIn version 3.3

; SEQ ID NO 11

; LENGTH: 1935

; TYPE: DNA

; ORGANISM: Sphingobacterium sp.

; FEATURE:

; NAME/KEY: CDS

; LOCATION: (61) .. (1917)

; US-10-859-405-11

; Query Match Score 1935; DB 8; Length 1935;

; Best Local Similarity 100.0%; Pred. No. 0;

; Mismatches 0; Indels 0; Gaps 0;

; Matches 1935; Conservative 0;

;

; 1 GAAACCAAGTGTAAAATTATATTACCAAAAGATGACTCTGAAACAAATTATCTGA

; 1 GAAACCAAGTGTAAAATTATATTACCAAAAGATGACTCTGAAACAAATTATCTGA

; 61 ATGAAAATTACAAATTCTGCGCTTAACTTCTAGGCTTAACTTCTAGGCTTAACTG

; 61 ATGAAAATTACAAATTCTGCGCTTAACTTCTAGGCTTAACTTCTAGGCTTAACTG

; 121 CAAACACTGGCAGACTGGCTTATGCTGATGATCACTTAAAGCCGAGTAGCAATT

; 121 CAAACACTGGCAGACTGGCTTATGCTGATGATCACTTAAAGCCGAGTAGCAATT

; 181 CCCATGGGAAACAGGGAGATAATGGTAGATGATCACTTAAACCTGTTGGCATCT

; 181 CCCATGGGAAACAGGGAGATAATGGTAGATGATCACTTAAACCTGTTGGCATCT

; 241 AAATATCAGTTGCTCAATTAGAACCTTACCCCTAACCTGTTGGCATCT

; 241 AAATATCAGTTGCTCAATTAGAACCTTACCCCTAACCTGTTGGCATCT

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; 1381 CAAACCGAACACGGAGATAATGGTAGATGATCACTTAAACCTGTTGGCATCT

Best Local Similarity 100.0%; Pred. No. 0; Matches 1935; Conservative 0; Mi smatches																																																																											
Qy 1441 GTCATGGTTATCAAACGAAACCGTNGACGGAGGACTGACGATAGTAGGCCCAATCAA 1500	Db 1441 GTCATGGTTATCAAACGAAACCGTNGACGGAGGACTGACGATAGTAGGCCCAATCAA 1500	Qy 1441 GAAACCAAGGTAAATTATAATTATACACAAAAGATGTAATCTGCA 60	Db 1441 GAAACCAAGGTAAATTATAATTATACACAAAAGATGTAATCTGCA 60	Qy 1501 AACTTCTCAAGTTCTCACAGAACAGACGGCATATGTTCAACTGATTGAC 1560	Db 1501 AACTTCTCAAGTTCTCACAGAACAGACGGCATATGTTCAACTGATTGAC 1560	Qy 1501 ATGAAATAAAATCAATTCTGCGCTAACTTACACAAAAGATGTAATCTGCA 120	Db 1501 ATGAAATAAAATCAATTCTGCGCTAACTTACACAAAAGATGTAATCTGCA 120	Qy 1561 GTTTATCCGAAATGATGATCAGCAAGTAAACAAAGGCTGATATCAATGATG 1620	Db 1561 GTTTATCCGAAATGATGATCAGCAAGTAAACAAAGGCTGATATCAATGATG 1620	Qy 1561 CAAAGCTCGGACTCGGGTTATGTTAGAGATCAATTAGCCTTACCTTGCGCT 120	Db 1561 CAAAGCTCGGACTCGGGTTATGTTAGAGATCAATTAGCCTTACCTTGCGCT 120	Qy 1621 GTACGTGGTGGATCATGGCGGGAAATACCGAAATGGTTGATAAGGCAGCCCTG 1680	Db 1621 GTACGTGGTGGATCATGGCGGGAAATACCGAAATGGTTGATAAGGCAGCCCTG 1680	Qy 1621 CCAATCGGAGATGGAAAAAATTATTTACMGCACTTACAGTCCAAAGCAAG 240	Db 1621 CCAATCGGAGATGGAAAAAATTATTTACMGCACTTACAGTCCAAAGCAAG 240	Qy 1681 ACTCCAGGTATGGTGGAAAGGTGAATTGGAATCCAGCTGGCATACCTTCAA 1740	Db 1681 ACTCCAGGTATGGTGGAAAGGTGAATTGGAATCCAGCTGGCATACCTTCAA 1740	Qy 1681 AAATATCCAGTTTGCCTAACTAGACGCCCTAACGGTTAACCTTATGGCGAGACAA 300	Db 1681 AAATATCCAGTTTGCCTAACTAGACGCCCTAACGGTTAACCTTATGGCGAGACAA 300	Qy 1741 AAAGGACATCCSCTATGGTTCAGTACAACATGGTTCCGTTGGAAAGGAAAT 1800	Db 1741 AAAGGACATCCSCTATGGTTCAGTACAACATGGTTCCGTTGGAAAGGAAAT 1800	Qy 1741 TATAAAAAGCTTGGAAACTTCCCCTAAATGATCGGTAAAGGTATATTTCGTTAC 360	Db 1741 TATAAAAAGCTTGGAAACTTCCCCTAAATGATCGGTAAAGGTATATTTCGTTAC 360	Qy 1801 CCACAGTGGTTTACGCTTATACGTTACCAAGCTGATTTCCGAAAGCTACCAA 1860	Db 1801 CCACAGTGGTTTACGCTTATACGTTACCAAGCTGATTTCCGAAAGCTACCAA 1860	Qy 1801 CAGGATGTCGGAAAGTGGATGTCGGAAAGGTGGTTAACCTATGGCTGAATGG 420	Db 1801 CAGGATGTCGGAAAGTGGATGTCGGAAAGGTGGTTAACCTATGGCTGAATGG 420	Qy 1861 CGTATTCTACGATGTAACATGGCACAATATCGAAATTCTGTCCTCAAAGATTAG 1920	Db 1861 CGTATTCTACGATGTAACATGGCACAATATCGAAATTCTGTCCTCAAAGATTAG 1920	Qy 1861 TTACGAAAAATCTCAAACACTATATGGAAAGGGGTCTATGGATTCCPATCCA 540	Db 1861 TTACGAAAAATCTCAAACACTATATGGAAAGGGGTCTATGGATTCCPATCCA 540	Qy 1921 CAGGTAAATTGAAAA 1935	Db 1921 CAGGTAAATTGAAAA 1935	Qy 1921 TACAGAAAAATCTCAAACACTATATGGAAAGGGGTCTATGGATTCCPATCCA 540	Db 1921 TACAGAAAAATCTCAAACACTATATGGAAAGGGGTCTATGGATTCCPATCCA 540	Qy 541 GGCTCTTATCTACCGTGCATTGGTCAAACACACCCTGGCAGCTTGGCTCCCCA 600	Db 541 GGCTCTTATCTACCGTGCATTGGTCAAACACACCCTGGCAGCTTGGCTCCCCA 600	Qy 541 GGCTCTTATCTACCGTGCATTGGTCAAACACACCCTGGCAGCTTGGCTCCCCA 600	Db 541 GGCTCTTATCTACCGTGCATTGGTCAAACACACCCTGGCAGCTTGGCTCCCCA 600	Qy 601 CAGGCTCCGTAACGACTGTTATCGGCACTTCCACCATATGGCTATGTGT 660	Db 601 CAGGCTCCGTAACGACTGTTATCGGCACTTCCACCATATGGCTATGTGT 660	Qy 601 CAGGCTCCGTAACGACTGTTATCGGCACTTCCACCATATGGCTATGTGT 660	Db 601 CAGGCTCCGTAACGACTGTTATCGGCACTTCCACCATATGGCTATGTGT 660	Qy 661 CCTTCAAGGATGGATTACATTCTACGTTGGCTCCCTGTCCTCAAACCCATTACA 720	Db 661 CCTTCAAGGATGGATTACATTCTACGTTGGCTCCCTGTCCTCAAACCCATTACA 720	Qy 661 CCTTCAAGGATGGATTACATTCTACGTTGGCTCCCTGTCCTCAAACCCATTACA 720	Db 661 CCTTCAAGGATGGATTACATTCTACGTTGGCTCCCTGTCCTCAAACCCATTACA 720	Qy 721 CCGGTCAATTAAACGGCAAATTCAGTAAAGGCCATAATAACTTTTGC 780	Db 721 CCGGTCAATTAAACGGCAAATTCAGTAAAGGCCATAATAACTTTTGC 780	Qy 721 CCGGTCAATTAAACGGCAAATTCAGTAAAGGCCATAATAACTTTTGC 780	Db 721 CCGGTCAATTAAACGGCAAATTCAGTAAAGGCCATAATAACTTTTGC 780	Qy 781 GAAGCAGGAACGGCGGAACTCAAGAAAGTATTCTGACTCCGTAACAAATTGG 840	Db 781 GAAGCAGGAACGGCGGAACTCAAGAAAGTATTCTGACTCCGTAACAAATTGG 840	Qy 781 GAAGCAGGAACGGCGGAACTCAAGAAAGTATTCTGACTCCGTAACAAATTGG 840	Db 781 GAAGCAGGAACGGCGGAACTCAAGAAAGTATTCTGACTCCGTAACAAATTGG 840	Qy 841 AATGACCTGTTAACGACTCCGACTATGATGATTGAAATCGGTGTGATCAGAAAT 900	Db 841 AATGACCTGTTAACGACTCCGACTATGATGATTGAAATCGGTGTGATCAGAAAT 900	Qy 841 AATGACCTGTTAACGACTCCGACTATGATGATTGAAATCGGTGTGATCAGAAAT 900	Db 841 AATGACCTGTTAACGACTCCGACTATGATGATTGAAATCGGTGTGATCAGAAAT 900	Qy 901 TCTTACAGGAACTTAAACGACTCCGACTATGATGATTGAAATCGGTGTGATCAGAAAT 960	Db 901 TCTTACAGGAACTTAAACGACTCCGACTATGATGATTGAAATCGGTGTGATCAGAAAT 960	Qy 901 TCTTACAGGAACTTAAACGACTCCGACTATGATGATTGAAATCGGTGTGATCAGAAAT 960	Db 901 TCTTACAGGAACTTAAACGACTCCGACTATGATGATTGAAATCGGTGTGATCAGAAAT 960	Qy 961 GCTTATGGAACTTAAACGACTCCGACTATGATGATTGAAATCGGTGTGATCAGAAAT 1020	Db 961 GCTTATGGAACTTAAACGACTCCGACTATGATGATTGAAATCGGTGTGATCAGAAAT 1020	Qy 961 GCTTATGGAACTTAAACGACTCCGACTATGATGATTGAAATCGGTGTGATCAGAAAT 1020	Db 961 GCTTATGGAACTTAAACGACTCCGACTATGATGATTGAAATCGGTGTGATCAGAAAT 1020	Qy 1021 ATTTPAGTCGGGAACTTGTGCAAGAAGAAACTATTAA 1080	Db 1021 ATTTPAGTCGGGAACTTGTGCAAGAAGAAACTATTAA 1080	Qy 1021 ATTTPAGTCGGGAACTTGTGCAAGAAGAAACTATTAA 1080	Db 1021 ATTTPAGTCGGGAACTTGTGCAAGAAGAAACTATTAA 1080	RESUL T 5		RESULT 5	
US-10-876-673-11		US-10-876-673-11		Sequence 1, Application US/10876673		Sequence 1, Application US/10876673		SEQUENCE 1, Application US/10876673																																																																			
;	;	;	;	Publication No. US2005012405A1		Publication No. US2005012405A1		GENERAL INFORMATION:																																																																			
;	;	;	;	APPLICANT: YOKOZEKI, KENZO		APPLICANT: YOKOZEKI, KENZO		APPLICANT: YOKOZEKI, KENZO																																																																			
;	;	;	;	APPLICANT: OHNO, AYAKO		APPLICANT: OHNO, AYAKO		APPLICANT: OHNO, AYAKO																																																																			
;	;	;	;	APPLICANT: ABE, ISAO		APPLICANT: ABE, ISAO		APPLICANT: ABE, ISAO																																																																			
;	;	;	;	TITLE OF INVENTION: METHOD FOR PRODUCING ALPHA-L-ASPARTYL-L-PHENYLALANINE-BETA-ESTER		TITLE OF INVENTION: METHOD FOR PRODUCING ALPHA-L-ASPARTYL-L-PHENYLALANINE-BETA-ESTER		TITLE OF INVENTION: METHOD FOR PRODUCING ALPHA-L-ASPARTYL-L-PHENYLALANINE-BETA-ESTER																																																																			
;	;	;	;	TITLE OF INVENTION: AND METHOD FOR PRODUCING		TITLE OF INVENTION: AND METHOD FOR PRODUCING		TITLE OF INVENTION: AND METHOD FOR PRODUCING																																																																			
;	;	;	;	FILE REFERENCE: 254 836US0PCT		FILE REFERENCE: 254 836US0PCT		FILE REFERENCE: 254 836US0PCT																																																																			
;	;	;	;	CURRENT APPLICATION NUMBER: US/10/876, 673		CURRENT APPLICATION NUMBER: US/10/876, 673		CURRENT APPLICATION NUMBER: US/10/876, 673																																																																			
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;	;	;	;	PRIOR FILING DATE: 2004-01-23		PRIOR FILING DATE: 2004-01-23		PRIOR FILING DATE: 2004-01-23																																																																			
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;	;	;	;	PRIOR FILING DATE: 2003-01-24		PRIOR FILING DATE: 2003-01-24		PRIOR FILING DATE: 2003-01-24																																																																			
;	;	;	;	NUMBER OF SEQ ID NOS: 27		NUMBER OF SEQ ID NOS: 27		NUMBER OF SEQ ID NOS: 27																																																																			
;	;	;	;	SOFTWARE: PatentIn version 3.3		SOFTWARE: PatentIn version 3.3		SOFTWARE: PatentIn version 3.3																																																																			
;	;	;	;	SEQ ID NO: 11		SEQ ID NO: 11		SEQ ID NO: 11																																																																			
;	;	;	;	LENGTH: 1935		LENGTH: 1935		LENGTH: 1935																																																																			
;	;	;	;	TYPE: DNA		TYPE: DNA		TYPE: DNA																																																																			
;	;	;	;	ORGANISM: Sphingobacterium sp.		ORGANISM: Sphingobacterium sp.		ORGANISM: Sphingobacterium sp.																																																																			
;	;	;	;	NAME/KEY: CDS		NAME/KEY: CDS		NAME/KEY: CDS																																																																			
;	;	;	;	LOCATION: (61) .. (1917)		LOCATION: (61) .. (1917)		LOCATION: (61) .. (1917)																																																																			
;	;	;	;	FEATURE:		FEATURE:		FEATURE:																																																																			
;	;	;	;	NAME/KEY: CDS		NAME/KEY: CDS		NAME/KEY: CDS																																																																			
;	;	;	;	LOCATION: US-10-876-673-11		LOCATION: US-10-876-673-11		LOCATION: US-10-876-673-11																																																																			
;	;	;	;	Query Match		Query Match		Query Match																																																																			
;	;	;	;	100.0%;		Score 1935;		Score 1935;																																																																			
;	;	;	;	Length 1935;		Length 1935;		Length 1935;																																																																			

RESULT 6		US-11-050-829-19	
		Sequencing 19, Application US-11050829	
		Publication No. US20050176150A1	
GENERAL INFORMATION:			
Db	1021 ATTTAGTCGGGACCTTGTGTATCATGGCGTTGGGTTCTTGCAAGGAAACTATTAA 1080	APPLICANT: KIRI, IKUO	
Qy	1081 GGTGATPATCCATTGAGAAAAAACGATTACTTACGAAACGTTGAACACCA 1140	APPLICANT: YOKOZUKI, KENZO	
Db	1081 GGTGATPATCCATTGAGAAAAAACGATTACTTACGAAACGTTGAACACCA 1140	APPLICANT: SUZUKI, SONOKO	
Qy	1141 TTTTCAATTATTCTAAAGATGAGGAACCTGCCCTTCCAGGTAACATTTT 1200	APPLICANT: MIHARA, YASUHIRO	
Db	1141 TTTTCAATTATTCTAAAGATGAGGAACCTGCCCTTCCAGGTAACATTTT 1200	APPLICANT: HIRAO, YOSHINORI	
Qy	1201 GTTTCGGCAGCAAACGATGAAACATTGAGACATTGGCACCAAAAAATGTAGAGACA 1260	APPLICANT: HIRAO, YOSHINORI	
Db	1201 GTTTCGGCAGCAAACGATGAAACATTGAGACATTGGCACCAAAAAATGTAGAGACA 1260		
Qy	1261 AAAAAGCTATACCTTCAACCTTCAGGGAAACTTGGATTGACAAGTTCACTGAGAT 1320		
Db	1261 AAAAAGCTATACCTTCAACCTTCAGGGAAACTTGGATTGACAAGTTCACTGAGAT 1320		
Qy	1321 TCCTGGATGATAATGATAAGACCCATTAAACCTGTTGGCATTAAGGGGGATT 1380		
Db	1321 TCCTGGATGATAATGATAAGACCCATTAAACCTGTTGGCATTAAGGGGGATT 1380		
Qy	1381 CAAAACCGAACACGGGAGTATGGTAGATGATCAAGTTCAGTGGCTTAATGGCTGTAT 1440		
Db	1381 CAAAACCGAACACGGGAGTATGGTAGATGATCAAGTTCAGTGGCTGTAT 1440		
Qy	1441 GTCATCGTTTATCAAACGGAACCCGTTGAGGAGGACTGCTGAGATAGTGGCCCAATCAA 1500		
Db	1441 GTCATCGTTTATCAAACGGAACCCGTTGAGGAGGACTGCTGAGATAGTGGCCCAATCAA 1500		
Qy	1501 AACTTCTCAAGTTCTAACGGAAACAGCGGCAACTATGTTGCAAACTGTGAC 1560		
Db	1501 AACTTCTCAAGTTCTAACGGAAACAGCGGCAACTATGTTGCAAACTGTGAC 1560		
Qy	1561 GTTATTCGGATGATGTCAGCAAGTTATCAAGGAAACAAATGGCTGGATATCAAATGATG 1620		
Db	1561 GTTATTCGGATGATGTCAGCAAGTTATCAAGGAAACAAATGGCTGGATATCAAATGATG 1620		
Qy	1621 GTACCGTGTGAGATCTGGCGGGAAATAACGAAATGGTTTGATTAAGCCAGGGCTTG 1680		
Db	1621 GTACCGTGTGAGATCTGGCGGGAAATAACGAAATGGTTTGATTAAGCCAGGGCTTG 1680		
Qy	1681 ACTCCAGGTATGGTCAAAAGGTGAAATTGAAATCCAGGTTGCAACTCTGAA 1740		
Db	1681 ACTCCAGGTATGGTCAAAAGGTGAAATTGAAATCCAGGTTGCAACTCTGAA 1740		
Qy	1741 AAAGGCATGCGCATTTGGTTTCAAGGAAACACTCTGGTTTCCGGGAGAAACGAAAT 1800		
Db	1741 AAAGGCATGCGCATTTGGTTTCAAGGAAACACTCTGGTTTCCGGGAGAAACGAAAT 1800		
Qy	1801 CCACAGGTGTTTACACCTTATAGGTCTACAGCTTACAGCTGTTCCGAAGCTACCAA 1860		
Db	1801 CCACAGGTGTTTACACCTTATAGGTCTACAGCTTACAGCTGTTCCGAAGCTACCAA 1860		
Qy	1861 CGTATTCTTCAGGATGTGAAACATGCCACATACATGAAATTTCCTGAAAGTTAG 1920		
Db	1861 CGTATTCTTCAGGATGTGAAACATGCCACATACATGAAATTTCCTGAAAGTTAG 1920		
Qy	1921 CAGGTAAATTGCAA 1935		
Db	1921 CAGGTAAATTGCAA 1935		

Qy	545	TCTATTCTACCGTGGATTGGTCAAACAACACCCGAGCTTGGCTGCCAACAGG	604	Db	1631	GTGCAGAAATATGGCGGAAAATATAGAAATAGTCACCCGAAAGCTTGTC	1690
Db	554	TCTATTCCAAATGAGTTGGTAATTGGCATCACTTAAAGGGTTTGCCAAAG	613	Qy	1685	CAGGTATGGTCCAAACGGTGAATGGTGAATTGGTCAAATCCTAAGGAAAG	1744
Qy	605	CTCCCGTAAACAGACTGTATACTGGCGAACGACTTCCAAACATAATGGGGTATGTTCTC	664	Db	1691	CGAATTAAGAACAAATGTAACGTAACGATGGTTTATCTTGA	1750
Db	614	CGCCCGTAAACAGACTGTATACTGGCGAACGACTTCCAAACATAATGGGGTATGTTCTC	673	Qy	1745	GACATGGCATTATGGTTCAGGTACAAACTCATGGTTTCCGGTGGCTGAAACGAAATCC	1804
Qy	665	AGGATGATTACATTCTGTCACCTTGGTGTCCCCTGTCAAACCCATTACACGG	724	Db	1751	GACATGGCATTATGGTTCAGGTACAAACTCATGGTTTCCGGTGGCTGAAACGAAATCC	1810
Db	674	ATGATTCTTCATTTGACTGTTTGGTGTAAAAGCTCGCAACCAATTACCGCAG	733	Qy	1805	AGGTGTTTGGACCTTATACAGTACCAAAAGCTGATTTGGCTAAGCTACCAAAAGTA	1864
Qy	725	ATGATTAAAGCCAAATTACGATCAAGAACGCGATAATAATAACTTTTGCAAGA	784	Db	1811	AACATTATTGATGGTTTACGAAGAACACTCTAAAGATTATTAAACAAACGCAACGAA	1870
Db	734	ATTAAGTTCGGAAACGTTTGGATATCCATAAAGATAATTAGATTTATGCA--AA	790	Qy	1865	TTTTCA	1871
Qy	785	CAGGAACAGGGCGGAACTCAAGAAAGATAATTGGTGACTCCGTACAATTGGATG	844	Db	1871	TTTCA	1877
Db	791	GTGGCTGTAAAGATGTAATGATAATTGGCAAGATAATTGGTACATG	850				
Qy	845	ACCTGTTAAGCATCCGAACTATGATGATTTGGAAATCGGGTGTATCAGAAATTCT	904				
Db	851	ATTATTTCGGCATCCAGATTAGCTCATTTGGAAATGCTAATGTTTACACAT	910				
Qy	905	TACAGGAGCTAAACCAACTCTGTATGGTGTGGTGTGGTCTTGTACGGGAGATGCTT	964				
Db	911	TAACTAAGTGTGAAACCTCTGTATGGTGTGGTGTGGTGTGGTGTGGTGT	970				
Qy	965	ATCGAACACTTTAAAGCTACCAATGATGATGATTTGGAAATACACTCGATT	1024				
Db	971	ACCGCGCTTTCGAAACCGTATAAGCAAAATCTGGAAACAAATPATTA	1030				
Qy	1025	TAGTCGGGACCTTGGTATCATGGCTTGGTCTGGAAAGAAACTATTAGTG	1084				
Db	1031	TGGTTGCCGACCTTGGTTCTGGTTCTGGTGTGGTTCTGGTGTGGTGTGGAG	1090				
Qy	1085	ATATCCAAATTGGAAAAAACCAGTATTACTTATCAGGAACGATTGAAACACATT	1144				
Db	1091	ATATGAAATTGGATGGATCAAGTGGATCAAGTGGATCAAGTGGATTC	1150				
Qy	1145	TCAATATTACCTAAAGATGAGGAACACTGGCCCTTCCGAAGCTAATGTTT	1204				
Db	1151	TAAATTATTACCTAAAGATTAAGGTAAATTGTTAAACCAACCCAAAGCTCAATTTTATA	1210				
Qy	1205	CAGGAGAACGAACTGAAACATTGGAAACATTGGCAACAAAAAATGAGAACAAA	1264				
Db	1211	CGGGATCAACGAACTGAAACATTGGTGTGGCCCAAAATGTAACACCAA	1270				
Qy	1265	AACATACTTCCACCTCAAGCTGGAAACTGGTGGATGAGATTC	1324				
Db	1271	AAATTATTGGACAAATGTAATGTTAAACCAATAACAAACTACTT	1330				
Qy	1325	GGGATGATAATGTAACGACCCCTAAACCTGGCTTCCGATCAAGGTGGGTAAATCAA	1384				
Db	1331	TGAGCATGATAATGGTGCAGATCCAATCTCCAGTTCTTATTCAGGAGGTITGAA	1390				
Qy	1385	ACCGAACACGGGATGATGGTAGATGATCAACGTTGGCTCAATGTCGCTGATGCA	1444				
Db	1391	CTCGTTCAAGAGATAATGGTGCAGATCCAATCTCCAGTTCTGCTGATGTTA	1450				
Qy	1445	TGTTTATCAACGGAACGTTGACGGGGACTGTGAGATAGTGGCCAACTAAACAT	1504				
Db	1451	TGTTGATAATGTAATGGTAGATGATCAACGAGATAATTGCTGTTATGATC	1510				
Qy	1505	TCTCAAGTTCTCAAGGAACAGGGGACTATGTTCAACTGATTGACCTT	1564				
Db	1511	ATTTAGCTGTTCTACPAAGGAAACAGCGCTGATGTTGATGTTAATGATGTT	1570				
Qy	1565	ATCGGAATGATGCAAGGAACTGAAACAAATGCTGGATATAATGATGTCAC	1624				
Db	1571	ATCTGAAACAGCCAAAATTAAATACAAATTAAATGCTGGATATAATGATC	1630				
Qy	1625	GTGGTAGATCAAGGGGGAAATACCGAAATGGTICGATAAGGCCGAGCTC	1684				
RESULT 8							
US-10-849-814-5							
; Sequence 5, Application US/10849814							
; Publication No. US20040219631A1							
; GENERAL INFORMATION:							
; APPLICANT: YOKOZEKI, KENZO							
; APPLICANT: SUZUKI, SONOKO							
; APPLICANT: HARA, SEIICHI							
; APPLICANT: ABE, ISAO							
; TITLE OF INVENTION: METHOD FOR PRODUCING TRIPEPIDES AND/OR PEPTIDES LONGER THAN TRI:							
; FILE REFERENCE: 252230BUS0CONT							
; CURRENT APPLICATION NUMBER: US/10/849,814							
; CURRENT FILING DATE: 2004-05-21							
; PRIOR APPLICATION NUMBER: PCT/JP03/0466							
; PRIOR FILING DATE: 2003-07-25							
; PRIOR APPLICATION NUMBER: JP 2002-218958							
; NUMBER OF SEQ ID NOS: 14							
; SOFTWARE: PatentIn version 3.1							
; SEQ ID NO 5							
; LENGTH: 2024							
; TYPE: DNA							
; ORGANISM: Empedobacter brevis							
; FEATURE: NAME/KEY: CDS							
; LOCATION: (61) ..(1908)							
; OTHER INFORMATION:							
US-10-849-814-5							
Query Match Score 771; DB 8; Length 2024;							
Best Local Similarity 65.5%; Pred. No. 7.8e-201; Indels 3; Gaps 1;							
Matches 1144; Conservative 0; Mismatches 600;							
Qy	125	CAGCTGGCAGCTGGCTTGTGATGATGAGCTTATGAAAGCCGAGTAGTGGCTTCCCA	184	Db	194	TGCGGATGGTCAAGGTTTACGCTTATGCGCTTATGCGCTTAAAGATGAACTTTCGCA	193
Qy	134	CGAAAGCAGATCTGCTTATGCGCTTATGCGCTTAAAGATGAACTTTCGCA	193				
Qy	185	TGCGGATGGGAAAATATTCTGCTTAAAGATGAACTTTCGCTTAAAGATGAACTTTCGCA	244				
Db	196	TGCGGATGGTCAAGGTTTACGCTTATGCGCTTATGCGCTTAAAGATGAACTTTCGCA	253				
Qy	245	ATCCAGTTTGGCTTATGAACTTTCGCTTAAAGATGAACTTTCGCTTAAAGATGAACTTTCGCA	304				
Db	254	ATCCGGTTGGCTTATGAACTTTCGCTTAAAGATGAACTTTCGCTTAAAGATGAACTTTCGCA	313				
Qy	305	AAAAAGCTTGGAAAACTTCCCAAATGATGCGTAAAGCTTATTTGGCTTACGG	364				
Db	314	AGATATGTTAGGAAATTTCTACAGAACTTGGCTTAAAGATGAACTTTCGCTTACGG	373				
Qy	365	ATGGCCCTGGCAAGTGGATGACCTGCTGTTGGATATACTGCTGTTGGCTTACGG	424				
Db	374	ATGTTGAGGAGAAATGATGAGGAGAAATGAGGAGAAATGAGGAGAAATGAGGAGAA	433				

425	GCAAGATAAAGAACATCGTGAAGCTGATGCTTGTATGGTTAC	484	Db	1511	ATTAGTAGCTTCTACTACGGAAAGCGCTGATTATGGTAAATTGATGGTGT 1570
434	CAAAGATAAAGAACATCGTGAAGCTGATGCTTGTATGGTTAC	493	Db	1565	ATCCGATGATGCGAACTTATCAGGAAAACATGGTGGATTAATGATGGTAC 1624
485	AGAAAATCTCAAAACTATATGGCAAGGGCTCTATGGATTCCPATCCAGGT	544	Db	1571	ATCCGATGATGCGAACTTATCAGGAAAACATGGTGGATTAATGATGGTAC 1630
494	CTAAACTCTGAGAAATTACAGAAAGCTGGAATTTCGATCCGGT	553	Qy	1625	GTGTGTGAGATCATGGCGGGAAATACCGAAATGGCTGTGATAAAGCGACGCCCTTGACTC 1684
545	TCTATTCTACCTCGGATTGGTCAAAACACACCAGCTGAGGCAGTCCTCCACAGG	604	Db	1631	GTGAGAAATTGGCGAAAATATAGAAATAGTTCTAACCCGAGCTATGGT 1690
554	TTTATTGACAAATGAGTTACAGAAAGCTCAACTCTAACGGGTTGCCACAGG	613	Qy	1685	CAGCTATGTCGAAGGGTCAATTGAAATGCCAGACCTTGGCTTACCTTCAGAAAG 1744
605	CTCCCGTAAACACACTGGTATATGGGACGACTTCACCATATGGGTATGGTTCTC	664	Db	1691	CGAATAAGAACAACTTGTAAACCTGACATGCGATGTTGAGAAAG 1750
614	GGCCCGTTAACATTGGTTTGTGAGTTCTCATCATATAATGGAGTTTATTCTGA	673	Qy	1745	GACATCGGATTATGGTCAAGAACCTGATGGTTCGGTGGAGAAATCCAC 1804
665	AGGATGCGATTACATCGTCAACCTTGGTGCCTCGTCCAACCCATTACACGGG	724	Db	1751	GACATCGGATTACATCGTCAAGAACCTGATGGTTCGGTGGAGATGGCTAC 1810
674	ATGATCTCTCATTTGAGTTCTGAGTTTGTGAAAGCTGCGAACATTAGCGAG	733	Qy	1805	AGGTGTTTAGCACCTPATACAGCTACCCAAAGCTGATTTCGGCAAGCTA 1864
725	ATCAATTAAAGGCCAAAATTCTGAGTCAAGAGGCCATAATAATACTTTTGGAGAAG	784	Db	1811	AACATTTGAACTCTAAAGGAACTTCAAGAACAGTAAAGATTATAACAGAA 1870
734	ATAAAGTCCGAAACCTTTCGATTCATTTGAGATAATTTGCAAGTTTACATG	850	Qy	1865	TTTTTCA 1871
785	CAGGACAGCGGGGAACTCAAAAGAAAGTATTGGTGTACCAATTGGATG	844	Db	1871	TTTATCA 1877
791	GTGGCTCTGTAAAAGGTGAGATAATTTGCAAGATAATCAAGTTTACATG	850	Qy	RESULT 9	
845	ACCTGTATAAGCATCGGACTATCGTATGATGATTGTTGAAATCGGTGTATCGAACCTCT	904	Db	US-10-955-533-5	
851	ATTATTGCGCATCCAGATAGATAATTGGCAAGATGTAATGTTTACCAT	910	Qy	; Sequence 5, Application US/1085533	
905	TACAGGAGGTAAAACCGACTCTGATGTTGTTGGTGTGTTTGTACGGGAAAGGCTT	964	Db	; Publication No. US20050019864A1	
911	TAACTAACGTCGAACTCTGCTGTAATGACGGTTGGAGTTTGTACGGAGATGCT	970	Qy	; General Information:	
965	ATGGACATTAACTAACGTTGAGGATAAAAGAAAAACACTCGATT	1024	Db	; Applicant: HARA, SEIICHI	
971	ACGGCCGTTTGGAAACGTTAACGATTAGCAAAATCGAAAGCAAAATTATA	1030	Qy	; Applicant: YOKOZEKI, KENZO	
1025	TAGTCGCGGACCTCTGATGGCGTTGGTCTGCGAAGGAAACTTATTCAGTG	1084	Db	; Applicant: ISHO, ISAO	
1031	TTGGTGGCGGACTCTGGTTGGTCTGGAGTAGTCTTGGAG 1090		Qy	; Applicant: TONOUCHI, NAOTO	
1085	ATATCCAATTGGAAAAAAACCGATTACTTATCAGGAAACAATTGAAACCAATT	1144	Db	; Applicant: JOJIMA, YASUO	
1091	ATATGCAATTGTCATGCAATTACAGTGGCAATTATGGAAAGCAAAATTATA	1150	Qy	; Title of Invention: NOVEL PEPTIDE-FORMING ENZYME GENES	
1145	TCAAATTATTACCTAAAGATGAGGAAACTTGCCCTTCCAAGGTTACATTGGTT	1204	Db	; File Reference: 253-183US0	
1151	TTAATTATTACTTAAAGATAAGGTTAATTTAAACCAACCGAAAGTCAAAATTATA	1210	Qy	; Current Application Number: US/10-855 , 533	
1205	CAGGCCAACGAACTGAAACATTTCGAAACTGGCCAAACTGGTACAGACAAAA	1264	Db	; Current Filing Date: 2004-05-28	
1211	CGGAACTAACGAAATTGATGGCTGGGACCAACAAAGTAAACACAAA	1270	Qy	; Prior Application Number: PCT/JP03/09468	
1265	ACTATACTTCAACCTCAGGGAAACTGGATTGACAAGTTCAGTACAGATCCT	1324	Db	; Prior Filing Date: 2003-07-25	
1271	AAATTGATTGCAACAAATGTTAAATGGTTTAAACCAACCAACTACTT	1330	Qy	; Prior Application Number: JP 2002-218957	
1325	GGGATAATAATGTAACGACCTTAACACTGGTACATTGGTAAATTCTCAA	1384	Db	; Prior Filing Date: 2002-07-26	
1331	TGACGAAATGTTGCAAGTCCAAATCTCAAGTTCTTCAAGGGTTTACAA	1390	Qy	; Prior Application Number: JP 2003-16765	
1385	ACCGAACACGGCAATGCAACTGGTACATGGTACATGGTAACTGGCTTGTATCGCTGATGTC	1444	Db	; Prior Filing Date: 2003-01-24	
1391	CTGGTCAAGGAATATGGTACGCTACTGGTCTACTCGTCTGAGTTA	1450	Qy	; Number of SEQ ID NOS: 27	
1445	TGGTTTATCAACGGAACCGGTTGACGGACCTGAGGATAGTGGCCAACTCAAAACT	1504	Db	; Software: PatentIn version 3.1	
1451	TGGTGTATCACTGTATTTGACAGAACTTACGGTCAAGTAAAGCTATG	1510	Qy	; SEQ ID NO: 5	
1505	TTCTCAAGTTCTCAACGGAACAGACGGCAACTATGTTCAAGCTATA	1564	Qy	; LENGTH: 2024;	
			Qy	; TYPE: DNA	
			Qy	; ORGANISM: Empedobacter brevis	
			Qy	; FEATURE:	
			Qy	; NAME/KEY: CDS	
			Qy	; LOCATION: (61).:(1908)	
			Qy	; OTHER INFORMATION:	
			Qy	; US-10-955-533-5	
			Qy	Query Match Score 39.8%; Best Local Similarity 65.5%; Matches 1144; Conservation 0; Mismatches 600; Indels 3; Gaps 1;	
			Qy	125 CAGCTGCCGACTCGCTTATGTTAGAGTCAATTGAAAGACCGAAAGTAGCAATTCCCA 184	
			Db	134 CAAAGCAGATTGCGTATGTTGCGACATTAGCAAGTAATTCCGA 193	
			Qy	185 TGGGAGATGGGAAAATATTATCTGCGATCTACGTCCAAATCCAGAAAT 244	
			Db	194 TGCCGCTGTCATGCAAGTATTCAGCTATTGCAAAAGAACAAAT 253	
			Qy	245 ATCCAGTTGGCTAAATAGAACGCCCCATAGCGTTTACCTATGGCAAGACGATAATA 304	

Db	254 ATCCGTTTGTAAATGCTACGTTGCCCTATACAGTTGGCTTAATGTTAACCA 313	Db	1331 TTGACGAATAATGTTGCCATCCAAATTCTCCAGTCCTTATTCAAGGAGGTATTAGAAA 1390
Qy	305 AAAAACCTGGAAACTTCCCAAATGTTGGCTGAGGTTATTTCTGTTACCG 364	Qy	1385 ACGAAACGGAAATGGCTTAATGTTGGATGATCACTAAGTTGGCTTAGNGCCCTGATGTC 144
Db	314 AGAAATCGTTAGAAATTCTCAGAAATGGTGGGAGGTTATTTCTGTTACCG 373	Db	1391 CTCGTTAGAGATAATGGTGTGATGATCACTGCTACTGCTGTGTTA 1450
Qy	365 ATGTCGGCACTGGCACTGGTGGGAGGTTGAAGATAACGCTCGACCCTAAC 424	Qy	1445 TGTTTATCAAGGAAACCGTGAAGGACCTGGGAGGATAGTGGCCAACTCAAAACT 1504
Db	374 ATGGAGGAAATGGTGGGAACTGGTGGGAGGTTGAAGATAACGCTAACCTT 433	Db	1451 TGGTGTCAATCTGATATTGAGAGATAATGGCTGTGTTATCACATC 1510
Qy	425 GCAAGATAAAAGCAATCGTAAAGTACGCTACATATGTCGCTTGATGGTAC 484	Qy	1505 TTCTAAAGTTCTCAACAGGAACAGACGGGAGCTATGTTGTCAACTGATGAGCTT 1564
Db	434 CAAAAGTAAAGGCAATTGGCAATGGCAACAGATACTTGTACGGCTTG 493	Db	1511 ATTAGTGGTTCTACTACGGGAAACAGCTGATGTTAATTGTTGATGTTT 1570
Qy	485 AGAAAATCTCAAACATAATGGCAAGAACGGCTTCCATCCAGCT 544	Qy	1565 ATCCGATGATGATCGAAGTTCAAGGTTCAAACTGCTGATTAATCAATGTTGTCAC 1624
Db	494 CTAAARCTTGGAAATTACGAAALAGCTGGAATTACGAAATGGCTTCTGTT 553	Db	1571 ATCTGAAAACGCCAAAATTATAACAAATTATGGCTGGATCAAAATTGATTGATTGTC 1630
Qy	545 TCTATTCTACCGTGGATTGGTCAAAACACCCGAGGTTGAAGGCACTCCACAGG 604	Qy	1625 GTGGTGGATCATGGCGGGAAATACCGAAATGGCTTGCATAAGCTGACTC 1684
Db	554 TTATTCCAAATGAGTTGGTAAATTCGATCAACTTAAAGGGTTGCCACAG 613	Db	1631 GTGCGAAATTATGGCGGAAATATGACCTCTAACCCGAAGTGTGTT 1690
Qy	605 CTCCCGTAAACAGCTGTTATCGGCCAGCACTTCCACATAATGGCTATGTTCTC 664	Qy	1685 CAGGTATGGTCAAAAGGTGAATTGAAATGCCAGCTGTTGGCATACCTTCAAAAG 1744
Db	614 CGCCCGTAAACATTGGTCTTGTGCAATTCTCATCATATAATGGGTTTATTCUTGA 673	Db	1691 CGAAATAAGAACAAATGTAACGTCAGGATECCAGTGTGCAATCATTTAGAAAG 1750
Qy	665 AGGATGATTTACATTCTGTCACCTTGTGTTCCCAAAACCAATTACACGG 724	Qy	1745 GACATCCCATATGGTTAGGTACAAACTCATGGTACAAACTCATGGTTCCGTG 1804
Db	674 ATGATTCTTCTCATTTGACTTTGGTGTAAACAGTCGGCAACAAATTACGCCAG 733	Db	1751 GACATCCCATATGGTACAACTGTCAGACAGTTGTTCCCTTGGGATGTCATCGC 1810
Qy	725 ATGATTAAAGGCCAAAATTCAAGTAAAGCCGATAAAATAACTTTTGCAAGAG 784	Qy	1805 AGGTGTTTACCACTTATACAGTTACCAAAAGCTGATTTCCGAAGCTACCAACGTA 1864
Db	734 ATAAGGTCGAAAACGTTGATATCCATAAAAGATAATTAGTTATGCTTAA 790	Db	1811 AACAAATTAGTGTGTTACGAAAGCAACTCTPAAGATAATTAAACAAAGCAACGAA 1870
Qy	785 CAGGAACGGCCGGAACTCAAAAGAAGTATTGTTGACTCTGTTGGATG 844	Qy	1865 TTTCAC 1871
Db	791 GTGGCTCTGTAAGAGTGTGAAAGATAAAATTGCAAGATAATTCACATG 850	Db	1871 TTATCA 1877
Qy	845 ACCGTGTTAGCATCCCACTATGATGTTGGAAATCGGTGTATCAAGAATTCT 904	RESULT 10	US-10-859-405-5
Db	851 ATTATTTCGCTTCAGATTAGCTATTTGGCAAGATGTAATGTTTACCACTT 910		; Sequence 5, Application US/10859405
Qy	905 TACAGGAGTAAACCAAGCTCTGGTGGTTCTTGTGACGGGAAAGATGCTT 964		; Publication No. US20050032154A1
Db	911 TAATCAAGTGTGCAACCTCTGGTGGTTCTTGTGAGAGATGCT 970		; GENERAL INFORMATION:
Qy	965 ATGGAACCTTTAGACCTACCATGATGTTGAGATAAAAGCAACTCGATT 1024		; APPLICANT: YOKOZEKI, KENZO
Db	971 ACACGGCTTTCGAAACGTTAAAGCAATTCGAAAGCAAAATTATA 1030		; APPLICANT: SUZUKI, SONOKO
Qy	1025 TAGTCGGGACCTGGGTTCTGGAAAGGAACATTGGTGGT 1084		; APPLICANT: HARA, SEIICHI
Db	1031 TGGTGGGGACTTGTGGTGGTTCTAGGZACGGAGTTGGAG 1090		; APPLICANT: ABE, ISAO
Qy	1085 ATATCCAAATTGAGAAACCACTTACATCTACGGAAACAAATTGAAACCAATT 1144		; TITLE OF INVENTION: METHOD FOR PRODUCING TRIPPLETTIDES AND/OR PEPTIDES LONGER THAN
Db	1091 ATGCAATTGATGATCAAGTAAAGATAAAATTGCAAGATAATTCAC 1150		; FILE REFERENCE: 254070US0
Qy	1145 TCAATATTACCTAAAGTGAAGGAAACTTGGGAAACTTGGATTTGCTT 1204		; CURRENT APPLICATION NUMBER: US/10-859,405
Db	1151 TAAATTATTAAGTAAAGATAAGGTAAATTGCAAGAAATTGCAAC 1210		; CURRENT FILING DATE: 2004-06-03
Qy	1205 CAGGAGCAACCTCAAGGAAACTTGGGAAACTTGGGAAACTTGGCTCT 1324		; PRIOR APPLICATION NUMBER: US 60/491,547
Db	1211 CGGGATCTAACGATGAAACATTGATGTTGGCAACAAATTGACACAA 1270		; PRIOR FILING DATE: 2003-08-01
Qy	1265 AACTATACCTCAACCTCAAGGAAACTTGGGAAACTTGGGAAACTTGGCTCT 1324		; PRIOR PILING DATE: 2002-07-26
Qy	1271 AAATTATTGCAACAAATGCTTAAATAGCTTTTAAACCAATACAACTCT 1330		; NUMBER OF SEQ ID NOS: 21
Db	1325 GGATGATGATATGTAACGACCTTAATAACCTGTTGGCATCAAGTGGGTAATTC 1384		; SEQ ID NO 5
Qy			; TYPE: DNA
			; ORGANISM: Empedobacter brevis
			; FEATURE:
			; NAME/KEY: CDS
			; LOCATION: (61) .. (1908)
			US-10-859-405-5
		Query Match 39.8%; Score 771; DB 8; Length 2024;	Qy
		Best Local Similarity 65.5%; Pred. No. 7.8e-201;	
		Matches 1144; Conservative 0; Mismatches 600; Indels 3; Gaps 1;	
		125 CAGCTGGGACTCGGCTTATGTTAGAGATCATTGAAAGGAACTTC 1384	

134	CAAGGAGGTTCTTGTGGCGCAATTAGAAACATTAAGAAGAAATTAAGAAGAACTTACGGTCA	193	Db
185	TGCCGATGGAAAAAATTATTACTGCGTCTACAGTCAGAACAAATCCAGAAAT 244	Qy	1265 AACTATACCTCAGGGAAACTCGATTGACAAGTTCAGCTAACGTAAGATTCCT
194	TGCGSGATGCTTACAGAACAAATGGTAAATACAGCTTATAGCAACAACTACTACTT 253	Db	1271 AAATTTATTGCAAAATGGTAAATGGTAAATAAACCATAACAACTACTT
245	ATCCAGTTTGCTCATAGAACGCCCCCTACCGGTTTACCGTTATGCCAGAACGAAATA 304	Qy	1325 GGATGAAATATGTTACAGACCCATAAAAGCCCTAACGTTGAACTGGGTAATCAA
254	ATCCGGTTGTTAATATGTAGCTTATACTGTCGCTTAACTGTTAATGGTAAATGAATA 313	Db	1331 TTGACGAATATGTTGAGATCTCAAAATCTCAAGTCTTATTCAAGGAGTTTGA
305	AAAAGCTGGAAACTTCCCAGAATTGAGGCTGAGGTTACCGTGAACGCTATATTGTTACCG 364	Qy	1385 ACCGAAACCGGAACTATGGTAACTGATAACCTTTCGGGTTAGTCGCCGTAGTGTCA
314	AGAAATCGTAGGAAATTCTACAGAAATGCCGAACGCTTATATTGTTACCAAG 373	Db	1391 CTCGTTCAAGAGATAATGGTCAAGGATTAACCTGATGTCAGCTCTGTTGTT
365	ATGCGTGCAGTGGATGAGGTTATTTGAAAGATAAGTCGACCAAGTGA 424	Qy	1445 TGGTTTATCAACGAAACCTTGGAGGACCTGAGTAGTGGCCAAATCAAACCT
374	ATGAGAGGAAATAATGGTAACTGATGAGGTTACGGGAACTTGTGACTTAAATCCTT 433	Db	1451 TGGCTATGATCTGATAATTGGAGAAATATTGAGTGTGTTATCACTGCTT
425	GCAAGATAAAAAGCAATCGTAAAGTGTGAACTTATGAGTGTGAACTTGTGACTTAAATCCTT 484	Qy	1505 TTCTCAAGTTCTCAACAGGAAACAGCCGGACTATGGTGTCAACTGAGCTT
434	CAAAAGTAAAGCAATGGCAATGGCAAGAGTAACTGATACTGAGTGTG 493	Db	1511 ATTTAGTGGTTTACTACCGGAACTCGGAACTTGTGAAATAATTGTTGTT
485	AGAAAATCTCAAAACTATATGCAACGCCGCTCTATGGATTCCTACCGCT 544	Qy	1565 ATCCGAAATGTCAGGAACTTATCAAGGAAAATAATGGTGTGATCAATGTTG
494	CTAAAACCTGAAAGTAACTGAAATTACAGGAAAAGCTGTAAATTGTTCTGGTT 553	Db	1571 ATCCGAAACACGCCAAATTATAACAAATTATGGCTGGATAAAATTGATT
545	TCTATTCTACCGTCGATTGTCGAAACACCCGAGCTTGAAGGCACTCTCCCAACAGG 604	Qy	1625 GTGTGAGTCATGGGAAATAACGAAATGGTTTGATAAAGCGAGGCCGCT
554	TTRATTGCAAGTAGTTGTTATTGGTAACTCTAAAGCCGTTTCGCAAG 613	Db	1631 GTGCAAAATTATGGCGGAAATAATGAGAATAGTTCTCAACCCGAGGTATG
605	CTCGGTAACTGAGCTGTATACTCGGAGACTTCACCAATAATGGCTTATGGCTTCCTC 664	Qy	1685 CAGGTATGGTCAAAGGTGAATTGGAAATGCGAGACCTTGGGATACTTCAA
614	CGCCGTAACTAACTGGTAACTGTTTACGTTAGTGTAACTGACGTTTATTCTGA 673	Db	1691 CGATAAAAGAAACAAATGTAACGTACACGTTGCAAGATGTTGAAAG 1750
665	AGGTGCAATTACATTCTACCTGCAACCTTGTGTCCTCTCCAAACCTAACACGG 724	Qy	1745 GACATGCAATTATGGTCAAGGAAACACTGATGGTTGGCGAGACGAAATCCAC
674	ATGATTCCTCTCATTATGACCTTTTGTGTAAAGCTGCCAACTAACCTAACGCCAG 733	Db	1751 GACATGCAATTATGGTCAAGGAACTGATGGTTGGCTTGGAGATCCGCAAT
725	ATCAATTGGGAAATTGATCAAGAAAGGCAATAATAACTTGTGAGAG 784	Qy	1805 AGGTGTTTTAGCACCTTATACAGCTACCAAGGTGATTCCGAAAGTCACT
734	ATTAAGGTCGAACGTTGATATCCATTAAAGGATATTAGTTATGATTATG - - AA 790	Db	1811 AACATTTATGAACTTGTGAAAGCAACTCTAAAGGTTTATGAAAGCAACTT
785	CAGGAACAGCGCCGAACTCTAAAGAAAGTATTGTTGATCGTAAATTGGATG 844	Qy	1865 TTTTCA 1871
791	GTGSGCTCTGAAAGGAAATAATTTGCAAGATAATATGAGTTTACATG 850	Db	1871 TTTATCA 1877
			RESULT 11
			US-10-876-673-5
			; Sequence 5, Application US/10876673
			; Publication No. US20050124035A1
			; GENERAL INFORMATION:
			; APPLICANT: YOROZEKI, KENZO
			; APPLICANT: HARA, SEIICHI
			; APPLICANT: OHNO, AYAKO
			; APPLICANT: ABE, ISAO
			; TITLE OF INVENTION: ALPHA-L-ASPARTYL-L-PHENYLALANINE-BETA
			; CURRENT APPLICATION NUMBER: US/10-876-673
			; CURRENT FILING DATE: 2004-06-28
			; PRIOR APPLICATION NUMBER: PCT/JP2004/0006620
			; PRIOR FILING DATE: 2004-01-23
			; PRIOR APPLICATION NUMBER: JP 2003-016764
			; PRIOR FILING DATE: 2003-01-24
			; PRIOR APPLICATION NUMBER: JP 2003-201819
			; PRIOR FILING DATE: 2003-07-25
			; PRIOR APPLICATION NUMBER: US 60/491,546
			; PRIOR FILING DATE: 2003-08-01
			NUMBER OF SEQ ID NOS: 27
			SOFTWARE: Patentin version 3.3
			SEQ ID NO: 5
			SEQ ID NO: 5

; LENGTH: 2024
; TYPE: DNA
; ORGANISM: Empedobacter brevis
; FEATURE: CDS
; NAME/KEY: CDS
; LOCATION: (61)..(1908)
; US-10-876-673-5

Query Match 39.8%; Score 771; DB 9; Length 2024;
Best Local Similarity 65.5%; Pred. No. 7..8..101; Indels 3; Gaps 1;
Matches 1144; Conservative 0; Mismatches 600;

Qy 125 CAGCTGCGACTGGCTATGGTTAGATCATTAGAAAGCCGAGTAGCAATTCCA 184
Db 134 CAAGAAGCGATCTGCCTATGGCTGCGRCAAATTACGAAATAAGTACGTAATTCCA 193
Qy 185 TCGGAGATGGAAAAAAATTAACTGGATCTACACTCCAAAAGACAATCCAAGAAAT 244
Db 194 TGGCGATGGTACAAAGTTAACGTTAACGTTAACGAAATAACAAACAT 253
Qy 245 ATCCAGTTTGCTCATTAGAAGCCCTAACCGTTAACCGTTAACGGAGCAATA 304
Db 254 ATCCCGTTTGTAAATGTAACGGCTTATACAGTTGCCCTATGGTTAAATGATAACA 313
Qy 305 AAAAAAAGCTTGGAAACTTCCCCAAATGGTACGGTATATTTCGTTACAGG 364
Db 314 AGAAATCTTAAAGGAAATTCTCTACGAAATGGCGGAGGTTTATTTGGTTACAG 373
Qy 365 ATGTCCTGGCAAGTGGATGACCGAAACTGGATTITGAAGATAACCTCGAACCTACA 424
Db 374 ATCTGAGGGAAATGGTACGGAAACCGGAAATTGGAGATTCGACCTATAAAATCCT 433
Qy 425 GCAAGATAAAAGCATTCTGATGAACTACGGATACTTATGGCTTAAATGGTAC 484
Db 434 CAAAAGTAAAGGCAATTGCAAGAACACAGATACTTGTAACTCTAGATGGCTTG 493
Qy 485 AGAAAAATCTCAAAAATATAATGGCAAAAGCGGGCTCATGGATTCCACGGT 544
Db 494 CTAAAAGCTTGAAGATACTACGAAAGGCTGAAATTAGGAAATTGGAAATTCTGATCTCTGTT 553
Qy 545 TCTATTCTACCGCTGGATTGGTCAAAACACACCCGAGCTGTCAGGCAAGG 604
Db 554 TTATTCGCAAACTGTTAACGTTGGTAAATTGCACTCAAACCTAAAGGGCTGAAATTAGGAAATTCTGATCTCTGTT 613
Qy 605 CTCGGTAAACAGCTGTGATATGGCGCGGAACTTCACACATAATGGGTATGGTTCTC 664
Db 614 CGCCCGTAAACCAATTGGTTTGTGGAATTTCATCATATAATGGGTTTATTCTGA 673
Qy 665 AGGATGGTAACTTCAATTCTGTCACCTGGTCAACCTTGTGTCGAAACCCATTACACGG 724
Db 674 ATGATTCTCTCATTTGACTTTTGTGTAACAGTCGGCAACAAATTACGCCAG 733
Qy 725 ATGAAATTAGGGCAAAATTCAAGATAAAAGAACCTTAAATTAACCTTTTGCAAGAG 784
Db 734 ATAAAGGTCGAAACGTTGGTAACTTCGATATAAGTAAATTAGTATPATGCAAA 790
Qy 785 CAGGAACGCGCGGAACTCAAGAAAGNGTATTGTTGACTTCGTAACATTGGATG 844
Db 791 GTGGCTCTGTAAGAGTGAAGATAATAATTGCAAGTTTACATG 850
Qy 845 ACCGTGTTAAGCATCCGACTATGATGTTTGGAAATCGCGTGTGATCAAGAATTCT 904
Db 851 ATTATTGCGATCCAGATTACGATCATTTGGCAGATCTAATGTTTACACATT 910
Qy 905 TACAGGAGTAAACCAAGCTGTCATGTCGTTGGTCTTGTGAGGAGATGCTT 964
Db 911 TAACTAACGTCGACCTCTGTTGATGACGGTGGTGGATGAGATCT 970
Qy 965 ATGGAACCTTAAACCTTAAACCTGATGTTGAGGATAAAACACTCGATTI 1024
Db 971 ACGGCGTTTCGAAACGTTAAAGCAATTGCAAGAACAAATGCAAGGAAACTT 1030
Qy 1025 TAGTCGCGGACCTTGGTATCATGGCTGGTTCTGCAAGGAAACTTGGTG 1084

Db 1031 TGTTGCGAACCTTGTGTTGTTGTTGTTGTTGTTGTTGTTGAG 1090
Qy 1085 ATATCCATTGAGAAAACAGTATTGAACTTATGAGGAAATTGAAACCATTT 1144
Db 1091 ATATGCGATTGCGATGATGAGCTTACGAGCTTACGAGCTTACGCTT 1150
Qy 1145 TCAAATTACCTAAAGATGAGAAACCTGCCCCTGGAAACTTGTGTTT 1204
Db 1151 TTAATTAACTAAAGATAAAAGTAAACCAACGAAACTTAAAGTAAATTGTTT 1210
Qy 1205 CAGGAGCAAGAAAGTGGAAACATTGAAACAGTGGCACCACAAAANTGTAGAGCAAAA 1264
Db 1211 CGGATCTAACGAACTGAAACATTGATGCTTGGCACCACAAAANTGTAAACACAGCA 1270
Qy 1265 AACATACCTAACCCCTACGGAAACTGAACTTGAATGAACTTACAGTACAGTACGTTCT 1324
Db 1271 AAATTTATGCGAACAAATGTTAAATACACCAATACACAAACTACTT 1330
Qy 1325 GGGATGATACTAACGACCCATAAACCTGTCGGCATCACGAGTGGGTAATTCAA 1384
Db 1331 TTGAGGATATGTTGAGATCCAAATCTCAGTCCATTATTCAGAGGAGTTTAA 1390
Qy 1385 ACCGAAACACGGAGATATGGTAGATGATCACACGTTTCGCGCTGTTGCT 1444
Db 1391 CTCTGTCAGAGAAATATGCTGTCAGTCAACGCTTGGCTCTGTTCTACTGTCCTGATCT 1450
Qy 1445 TGGTTATCAAGGAACTGGTACGGATGTTGAGATGAGCTGAGGCTGTT 1504
Db 1451 TGGTGTATCAATCTGATATTGCAAGAATATTACGCTTGCTGTTCTGTT 1510
Qy 1505 TTCTCAAAGTTCTCAACGAAACAGACGGCAATGTTGCTGACCTTT 1564
Db 1511 ATTAGTGGTTCTACTACGGAAACAGACGGCAATGTTGTAANATTGTTGTT 1570
Qy 1565 ATCCGATGATGCGAGTATCAGGAAACAAATGGCTGATATCAATTGTTGAC 1624
Db 1571 ATCCGTAACACGCCAAATTATAACACATTAAATTGCTGATATCAAAATTGATTGTC 1630
Qy 1625 TGGTGAGATATGGGGAAATACCGAAATGGTTCGATAAAGGCGAGGCTGACTC 1684
Db 1631 GTGCGAAGATTGGCGGAAATATPAGATAATTAGTAACTTCTCAACCCGAAAGTTGTT 1690
Qy 1685 CAGGTATGGTCAAAAGCTGATGGCTGCAATCCCTCAAAGAAG 1744
Db 1691 CGAAATAGAAACAAATGTAACGATGTTGCAAGTACGATCAATTGAAAG 1750
Qy 1745 GACATCCCATATGGTCAAGTACAAACTCATGGTTTCCGCTGGCAAGAACATTCCAC 1804
Db 1751 GACATCCCATATGGTCAAGTCAAGTGGTTCCCTTACGAGTCCCATTCGGC 1810
Qy 1805 ACGGTTTGTGACCTTAAAGGTTACGGTAAAGCTTGGCAAGCTTACCAAGTA 1864
Db 1811 AACAAATTGATGTTGAGGAACTCTTAACAAACGCAACTTAAACAAACGCAACGAA 1870
Qy 1865 TTTTCA 1871
Db 1871 TTATCA 1877

RESULT 12
US-11-05-0-829-13
; Sequence 13, Application US/11050829
; General Information:
; Application No. US200501761501
; Applicant: KIRA, IKUO
; Applicant: YOKOZEKI, KENZO
; Applicant: SUZUKI, SONOKO
; Applicant: MIHARA, YASUHIRO
; Title of Invention: MUTANT MICROORGANISM AND METHOD FOR PRODUCING PEPTIDE USING THE
; Title of Invention: SAME
; File Reference: 265063US0

	CURRENT APPLICATION NUMBER:	US/11/050,829	US-11-085-576-11
	CURRENT FILING DATE:	2005-02-07	Sequence 11, Application US/11/08557611
	PRIOR APPLICATION NUMBER:	US 60/617,060	Publication No. US20060227125A1
	PRIOR FILING DATE:	2004-10-12	
	PRIOR APPLICATION NUMBER:	JP 2004-029844	
	PRIOR FILING DATE:	2004-02-05	
	NUMBER OF SEQ ID NOS:	22	
	SOFTWARE:	PatentIn version 3.3	
	SEQ ID NO:	13	
	LENGTH:	2024	
	ORGANISM:	Empedobacter brevis	
	FEATURE:		
	NAME/KEY:	CDS	
	LOCATION:	(61) .. (1908)	
US-11-050-829-13			
	Query Match	39.8%; Score 771; DB 10; Length 2024;	
	Best Local Similarity	65.5%; Pred. No. 7.8e-201;	
	Matches 1144; Conservative	0; Mismatches 600; Indels 3; Gaps 1;	
	Qy	125 CAGCTCGGACTCGGTTATGGATCATTTATGAAAGACCGAAGTACCAATTCCA 184	
	Db	134 CAAACAGATTCGATCCAAATAGAACATGAACTTACAAATAGAACATGAACT 193	
	Qy	185 TGCAGATGGAAAAAATTTAATCTGCACTCTACAGTCCAAAAGACAATCCAAAT 244	
	Db	194 TGCAGATGGTACAAAGTATTACAGCTTATAGCTTAAAGATAAACAAACAT 253	
	Qy	245 ATCCAGTTTGTCTGTCATAGACGCCCTAACGGTTCACCTTATGGAAAGATA 304	
	Db	254 ATCCCGTTTGTAACTGTAACGCTTATACGTTGCCCTTATAGCTTAAATGATA 313	
	Qy	305 AAAAAGCTGGAAACTTCCCCAAATATGATGGTCAAGGGTATATTTCGTTACAGG 364	
	Db	314 AGAAATGGTAGGAATTCTACAGAAATGGCAAGGGTTATTGTTACCAAG 373	
	Qy	365 ATGTCGGAAACTGGATGGCAAGGTGATTGTGAAATACTGTCGACCGTACA 424	
	Db	374 ATGTCGAGGAAAATGGTAGGCAAGGGTAACTGGTAAATGGTAC 433	
	Qy	425 GCAAAGATAAAAAGAAATCTATGAAAGTAGGAYACCTATGATGGCTGAAATGGTAC 484	
	Db	434 CAAAGATAAAAGCCLAACTGAGAACAGATGGTAACTGGTAAATGGCTG 493	
	Qy	485 AGAAAATCTCAAACATATACTGGCAAGCGGGCTCTATGGGATTCTCTACAGGT 544	
	Db	494 CTAAAACCTGAAAGTAAAGTACGAAAAAGTGGATTATGGTTCCTATCTGGT 553	
	Qy	545 TCTATTCACCGTCGGATGGTCAAAACACCCCGAGCTTGAGCGACTCTCCCAACGG 604	
	Db	554 TTAACTGACATGACTTGTAACTGGTAACTGCAACACTCTAAACGGTTCGCCAACAG 613	
	Qy	605 CTCCCGTAAAGACTGTTATCGGGAACTCTACACATAATGGTAACTGGTTC 664	
	Db	614 CGCCCGTTACCAATGGTAACTGGTAACTGGTAACTGGTAACTGGTTTATCTCGA 673	
	Qy	665 AGGATGCCATTACATCTCAACCTTGTGTCCTCAAAACCCATTACACGG 724	
	Db	674 ATGATTCCTCTCATTGACTGAAAGTAAAGTGGTAAACCTGGCAAG 733	
	Qy	725 ATCAATTAAAGCCAAATTCAAGTCAAAAGAGCGATAATAACTTGTGAAAG 784	
	Db	734 ATAAAGCTCCAAAACGTTGAAATATCCATAAAAGATAATTAGTTATGCA---AA 790	
	Qy	785 CAGGACAGCGGGAACTCAAGAAAATATTGGTAAACCTGGCAAGTAACTGGTAC 844	
	Db	791 GTGGCTCTGTAAAGTGTGAAAGTAAATATTGCAAGTAAATCAAGTTACAG 850	
	Qy	845 ACCGTTTAAGCATCCGACTATGATGATGTTTGGAAATGGCTGTGATCACGAAATTCTT 904	
	Db	851 ATTATTGGCATCCAGATTAGCATTCAGATTAGCTTACATTGGTACATT 910	

GENERAL INFORMATION:

APPLICANT: MIHARA, YASUHIRO
APPLICANT: HIRAO, YOSHINORI
TITLE OF INVENTION: RECOMBINANT POLYNUCLEOTIDE
FILE REFERENCE: 268258050
CURRENT APPLICATION NUMBER: US/11/085, 576
PRIORITY FILING DATE: 2005-03-22
PRIOR APPLICATION NUMBER: JP 2004-083481
PRIORITY FILING DATE: 2004-03-22
NUMBER OF SEQ ID NOS: 28
SOFTWARE: PatentIn version 3.3
SEQ ID NO: 11
LENGTH: 2024
TYPE: DNA
ORGANISM: *Endobacter brevis*
FEATURE: *l*

NAME/KEY: CDS
LOCATION: (61) .. (1908)
us-11-085-576-11

Query Match 39.8%; Score 771; DB 10; Length 2024;
Best Local Similarity 65.5%; Pred. No. 7.8e-201; Length 2024;
Matches 1144; Conservative 0; Mismatches 600; Indels 3; Gaps 1;

Qy	125	CAGCTGGGACTCGGTATGTTAGACATCATTATGAAAGGCAAGGTAGCAATTCCA 184	Db	134	CAAAAGGAGATTCTGCTATGTCGCAAAATTACGAAAATAAGACAAAGTAATTCCA 193
Qy	185	TGGCAGATGGAAAAAATTATTATTACTCGCATCTACAGTCCAAAAGACAATCCAAAGAAAT 244	Db	194	TGGCAGATGGTACAAACTTATTACACCTTAATTACGCAAAAGATAAAACAAACAT 253
Qy	245	ATCCAGTTTGTCAATTAGAACGCCCTAACCGTTAACAGTTGGCTTATAGGTGAAGACGAAATA 304	Db	254	ATCCCGTTTGTAAATGTAGCGCTTATAGGTGGCTTATAGGTGAAGACGAAATA 313
Qy	305	AAAAAAAGCTTGGAAACTTCCCCAATGATCGTGAGGGTATATTTCCTTACCGG 364	Db	314	AGAAATGGTAGGAAATTCTTACGAAATTCGCGAGGGTTATTGGTTACAG 373
Qy	365	ATGTCGGTGGCAAAGTGGATTGAGGATATAAGCTGGGACCACTACA 424	Db	374	ATGTGAGGGAAATGGTAGCGGAAGCTGGGAAATTGGAGATTTGCACCTT 433
Qy	425	GAAAAGATAAAAAGCAATCGTAGAAGTGGCATACCTATGATGGCTTGAAATGGTTAC 484	Db	434	CAAAAGTAARAGGCAATTGCAAGGCAAGCATATGGTAGGATGGCTG 493
Qy	485	AGAAAATCTCAAAAACCTATAATGGCAAGGGCTCTATGGGATTCTTCRAGGCT 544	Db	494	CTAAAATGGAGAAATTACGAAAAGCTGGAAATTGGGAATTGGTACAG 553
Qy	545	TCTATTCTACCGTGGCAAACACACCCGGAGCTGAAAGGCGTCCCACAGG 604	Db	554	TITATTCTGGACATGAGTTGGTAAATCGCATCCAACTTAAAGCGGTTGCGCACAG 613
Qy	605	CTGCCGTAAACAGCTGTATATGGCAAGCTTCCACCATATGGCATGGTATGTTCTC 664	Db	614	CGCCCGTACCAATTCTGTTAGGTCACCTTGTGGCTGCTCCGTCATAATGGAGTTTATCTGA 673
Qy	665	AGGATGCTTACATTCTGTTAGGTCACCTTGTGGCTGCTCCGTCATAATGGAGTTTATCTGA 724	Db	674	ATGATTCTTCATTTGACTCTTGTGTTAGGTTAAACGTCGCAACCATTCGCCAG 733
Qy	725	ATCAATTAGGGCAAATTCTGAGATCAAAGAAGGCCATAATAACTTTTGCAGAG 784	Db	734	ATRAAGGTCGGAAACGCTTGTGGATATCCTAAATAAGTAAATTAGTTATGCA---AA 790
Qy	785	CGGAAAGCGCGGAACCTCAAGAAAATGTTGGTACCTCCGPACAAATTGGAAATG 844	Db	791	GTGGCTGTAAAGAGTGTGAGATAATATTGGAGATATCAAGTTTACAGT 850
Qy	845	ACCTGTAAAGCATCCCGACTATGATGATGTTGGAAATTCCGGTGTGATCACGAATTCTT 904	Db	851	ATTATTGTGCATCCAGATTCAGATCAATTGCAAGATCGTAAATGTTTACACATT 910
Qy	905	TACAGGAGGTAAACACGCTGATGCTGGTGTGGTCTTGTGCGGAAGATGCTT 964	Db	911	TAACATACGTCACCTGCTTAATGAGGTTTGTGAGAGTGTCT 970
Qy	965	ATGGAACATTAAAGCCTACCAATGATTGAGGATAAAAGCAAAACTCGATT 1024	Db	971	ACGGCGTTGAGCAAACTGAAATGAGCAAAATGAGCAAAATAATTGAG 1030
Qy	1025	TAGTCGGGACCTGTGTTATGAGGTTGGTTGTGCTGGCGAGAAACTATTGGT 1084	Db	1031	TGGTGCCTGGACCTTGTGGTTCTGAGTGGTGTGAGTGTGGAG 1090
Qy	1085	ATATCCATTGAGAAAAACCTGATTACTTATGGACAACTTGTGAGGTTTGTGAG 1144	Db	1091	ATATGGATTGCTGATGAAATGAGCAAAATGAGAAATTGCTGTTT 1150
Qy	1145	TCAAATTACTTAAGATAAGGAAACTTGGAAACTTGGCCCTTCGAGCTAACATTTRGTT 1204	Db	1151	TTAAATTACTTAAGATAAAAGTAAAGTAAATTAAACCAACGTTACATTTTTATA 1210
Qy	1205	CAGGCCAGCAAGGAACTGAAACTTGGCAACCTGGCACCMAAATGAGACAAAAA 1264	Db	1211	CGGGAATCTAACGAACTGGCAACCTGGCACCMAAATGAGACAAAAA 1270
Qy	1265	AACTATCCTCAACCTCAGGGAAACTTGGAAACTTGGCAACCTGGCACCMAAATGAGAC 1274	Db	1271	AAATTATTGCAACAAATTGTAATAACCTTATAACCAATACAACTACTT 1330
Qy	1325	GGGATGAAATGTTAACAGACCCATAATAACCTGTCGCTCATCAAGGTGGGTTAATTCAAA 1384	Db	1331	TTGACCAAGATATTGTCAGATCCTAAATTCTCCAGTCTTATTCAAGGACTTTGAA 1390
Qy	1385	ACCGAACCTGGGAGTATGGTAGATGATCAAGCTTGTGGCTTACTCGCTGAGTCA 1444	Db	1391	CTCGTTCAAGGAATAATGTCGTTCTGCTCTGCTCTGCTGTT 1450
Qy	1445	TGGTATCATACAGGAACTGGTACCTGAGATGATCAAGTGTGGCTTACGGCAACTTCAAAACT 1504	Db	1451	TGGTGTATCATCTGATATTGCAAGAATTAACGTTGCTGCTCTGTTAC 1510
Qy	1505	TTCTCAAAGTTCTAACAGGAACTGACCGGGCATATGTTGTCAGTGTGGCTT 1564	Db	1511	ATTAGCTGGTTCTACTACCGGAACGCTGTTATGTTGTAATAATGGTGTGTT 1570
Qy	1565	ATCCGATGATGTCGAGGTTATCAGGAAATAACATGGCTGATATCAATGTTGTC 1624	Db	1571	ATCCGTAAACACGCCAAAATTAAACAAATTATGGTGTGATATCAATTTGATTGTC 1630
Qy	1625	GTGGTGGATCATGGGGGAAATACCGAAATGGTTTCGATAATGCTGTTCTGTTCTGTT 1684	Db	1631	GTGCAAAATTATGCGGAAATAATGAAATAGTATGTTCTAACCCGAAACTATGTTCT 1690
Qy	1685	CAGGTATGGTGGAAAAGGTGAATTGAAATGCGCAAGCTGTCGATAACCTTCAAAAG 1744	Db	1691	CGAAATAAGAACAAATGTAACGATGTCGCAAGTGGACATACATTAAAGAAG 1750
Qy	1745	GACATGCCATTATGGTCAGTACAAACTCATGGTTCCCTGGAGAAAGAACATCCAC 1804	Db	1751	GACATGCCATTATGGTCAGTACAACTCATGGTTCCCTGGAGAAAGAACATCCAC 1810
Qy	1805	ACGTGTTTATGACCTTATGAGTCAACGCTTACGGTACCTGAGTCAACGTTACCAAGT 1864	Db	1811	AAACATTATGATGTTAGAAATGAGTAAAGTAAATTGAGCTTAAAGTAAATTGAG 1870
Qy	1865	TTTTCA 1871	Db	1871	TTTATCA 1877

US-10-763-179-17 ; Sequence 17, Application US/10763179
; Publication No. US20040204577A1
; GENERAL INFORMATION:
; APPLICANT: HARA, SEIICHI
; APPLICANT: YOKOZEKI, KENZO
; APPLICANT: ABE, ISAO
; APPLICANT: TONOUCHI, NAOTO
; APPLICANT: JOJIMA, YASURO
; TITLE OF INVENTION: NOVEL PEPTIDE-FORMING ENZYME GENES
; FILE REFERENCE: 24784800
; CURRENT APPLICATION NUMBER: US/10/763-179
; CURRENT FILING DATE: 2004-01-26
; PRIOR APPLICATION NUMBER: JP 2003-16765
; PRIOR FILING DATE: 2003-01-24
; PRIOR APPLICATION NUMBER: US 60/491,612
; PRIOR FILING DATE: 2003-08-01
; NUMBER OF SEQ ID NOS.: 27

Qy	676	ACATTATGTCGACCTTGGGTGCCCTCGTGTCAAACCCATTACACGGATCAATTAAAG	735
Db	682	AGCTTCTTATTAATCCTCGGGTACCGGACTCTAACCAATTACGCCAACAAAGTCCA	741
Qy	736	GCGAAAATTCAAGATCAAGAGGCCGATAAATATACTTTTGAGAAAGGAAAGAGCG	795
Db	742	AAACCCTTGTGATTCCCGTTAAAGCAGCACTAACCTTCTGGAACTGGCCCTTA	801
Qy	796	CGGAACTCAAGAAAGTATTGGTGAATCGCTGACTCCGTAACAATTGGATGACCTGTTAAG	855
Db	802	AAAAACATCACCAAAATAATTATGGCATACCATAGATTCGATGTTAATGGCG	861
Qy	856	CATCCGACTATGATGATTTGGAAATCGGGTGATCACGAATTCTTACAGGGGTA	915
Db	862	CATACCAATGATGATCCTCTGGAAAGCCGTAACATTAGCGGATTTAATGGTGT	921
Qy	916	AAACCGACTGTGATGGTGGTGGTCTTGAAGCGGAAGATGCTTATGGAACATT	975
Db	922	AAACCTGCAAGTTCGTTGGTAGTGGCCCTTCATGCAAGAGACCTTACGGTACGCTT	981
Qy	976	AGAACCTACCATCTGGATTGGGATAAAGGAAAAAACACTCGTAACTTGTGCTGGGA	1035
Db	982	AAAACCTTATCGGGCCTCTGAAAACAAATTCACTCTCAAAAAGAACCTCGTTATGGGC	1041
Qy	1036	CCTTGTGATCATGGCGTTGGGTTCTGGAGAAGGAAACTATTTAGGGTATTCATT	1095
Db	1042	CCCTGGTACCATGGTGTGGCAAGAATGCGGAAGCTGGAAAGCACTTTCATTATTC	1101
Qy	1096	GAGAAAAGAACGATTTAACTTATGAGAACAAATTGAGAACCTTTCAATTATTC	1155
Db	1102	GGACACCCAACCGATTTACATCCGAAATGTGAGTTCCCTTCTTATGGATAATC	1161
Qy	1156	CTAAGATGAGGAACCTTCGCCCCCTCGGAAGTAACTTTGGTTAGGGAGAAC	1215
Db	1162	CTCAAGGAGCACCGATGCAAAATGGAGCCACCTCTCAGGATACAGAGAAC	1221
Qy	1216	GAATGGAAATTTGCTTCGGAACGTTAGAGAACAAATACTTACCTGAGAAC	1275
Db	1222	GAATGGAGAAATTGGCTCTGGCACCTCAGGATACAGAGAACATTTACCTG	1281
Qy	1276	CAACCTCAGGGAAACCTGGGACCTTGGATGTTGACAAGTTCAGGATTCCTGGATGAA	1335
Db	1282	CAGCCAAATGCGAAACTGAGCTTGAAGGATACGGGACCGAGCTGGATGAAAT	1341
Qy	1336	GTAACGACCTTAATAACCTGTCGGGACTATGGTGTCAAAGGGGTAATTCAAACCGAACACCG	1395
Db	1342	GTAAGTGATCCAAATTCACTGTGCTCCATTACGGATGGCATACAAACCGAGACCCGG	1401
Qy	1396	GAGTATGGTAGATGATCAACGTTGGGCTGATGCTGGCTGATGCTGGTTATCA	1455
Db	1402	GAATATGATGTCGATACCTGATGAACTGGTAAACCTGATGTTGATTCCTGG	1461
Qy	1456	ACGGAAACCGTGTACGGGAGGACCTGAGATGAGCCAAATCAAACCTTCGAAAGT	1515
Db	1462	ACAGACCCCTCAGTCCGACCTTACACTACCGCCGGTATGGCCAACACTGGGT	1521
Qy	1516	TCTTCGACGAAACGACGGGACTATGGTGTCAAACCTGATGGCTTATCCGAATGT	1575
Db	1522	TCAACACAGCTACGGATGGCATACCTGTTGATGTTAACCTGATGTTGATTC	1581
Qy	1576	GCAGGAAGTATCAAGGAAACA-----ATGGCTGATATCAAATGATGGTA	1623
Db	1582	ACACCAAACTCTGTACTTACCTAAACCTGATGTTGATGGTAAACCTGATGTTG	1641
Qy	1624	CCTGGTGTGAGATCATGGGGAAATACCGAAATGCTGATAAAGGCCGGCTTGA	1683
Db	1642	CGGGGGAGATCATGGTAAATACTGGTAAATGGCTGATGGCTTGGT	1701
Qy	1684	CCAGGTATGGTCAAAGGTGAATTGAAATGCAAGGTTGGCATACTTCAAAAA	1743
Db	1702	CCTGGAACAAATCAAAAGTAACCTGCTTACCCCTTCGGATGATGCCATACCTTAA	1761
Qy	1744	GGACATTCGCAATTATGGGTTAGGTTACAAACACTCATGGCTGGAGACAAATCCA	1803

Db	1462	ACAGAGCCCTCAGTTGGACCTTACACTTACCGGCCAAACTGGGTATTGCCAAACTGGGTAA	1521
Qy	1516	TCTTCACAGAACAGACGGGACTATGTTGTCAAACTGAATGATGACCTTATCCGAAATGAT	1575
Db	1522	TCAACCAAGGTACGGATGAGATTGTGGTAAAATGATGATGATGAGAT	1581
Qy	1576	GCAGCAAGTTATCAAGAAAAACA-----ATGGCTGGATATCAAATGATGGTA	1623
Db	1582	ACRCAAAATCCGTACCTAACCTTAAACCTGATACAGATGCTGGTA	1641
Qy	1624	CCTGGTGAGATCATGGGGAAATACCGAAATGGTTTGATAAAGCGCCTTGACT	1683
Db	1642	CCGGGSGAGATCATGGTGGAAATACCGTAAATAGCTTGTAAAACCGAGCCCTTTGTT	1701
Qy	1684	CCAGGTATGGTGGAAAAGGTGAATTGAAATGCCATACCTTCAAAAAAA	1743
Db	1702	CCTGGAAACATTACAAAGTAAACATGCCCITCCGGATTAACCTTAAAAAA	1761
Qy	1744	GGACATCGCATATTGGTTCTGGTACAAACTCATGTTTCGGTGCAGACGAATCCA	1803
Db	1762	GCCCCCGCATCATGATCCAGGTCCAGAATTCTGTTCCCTGCCGACGGATCCA	1821
Qy	1804	CAGGTGTTTAGCACCTTACAGCTTACAAAGCTGATTTCCGAAAGCTACCCGACGT	1863
Db	1822	CAGGAGTTAACGACATTACCGGGAAACTGGGATTTCAGAAAGCTACGATAGG	1881
Qy	1864	ATTTTCAGATGTGAAACAATGCCACATACATCGAAATTTCGTCTCAAGATTAGCAG	1923
Db	1882	ATCTTCACGATGTAACAAATGCATCTGCAATTACGGAAACGTAACCTTAAAC	1941
Qy	1924	GTA 1926	
Db	1942	GGA 1944	

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